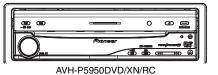
## Pioneer sound.vision.soul

# Service Manual



ORDER NO. CRT3916

**DVD AV RECEIVER** 

## AVH-P5950DVD/xN/RD AVH-P5950DVD/xN/RD AVH-P5950DVD/xN/RI

#### This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3212	CRT3896	MS5	DVD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems,Inc.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.



#### SAFETY INFORMATION

#### **CAUTION**

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

- 1. Safety Precautions for those who Service this Unit.
- Follow the adjustment steps in the service manual when servicing this unit. When check ing or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

#### Caution

С

- 1. During repair or tests, minimum distance of 13 cm from the focus lens must be kept.
- 2. During repair or tests, do not view laser beam for 10 seconds or longer.
- 2. The triangular label is attached to the mechanism unit frame.

#### CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.

Refer all servicing to qualified personnel.

The following caution label appears on your unit.

#### 小心:

本产品包含有1级以上的镭射二极管。为了保证安全,切勿打开任何机盖或者试图接触本机内部,必要时应请求专业技术人员提供服务。

下面的提醒标签贴于本机上。

位置: 本机后面板上。

#### On the top of the player.

CAUTION	. VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. * AVOID EXPOSURE TO BEAM.
VORSICH1	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEFFNET NICHT DEM STRAHL AUSSETZEN!
ADVARSE	, . SYNLIG OG USYNLIG LASERSTR LING VED BNING - · UNDG UDS®TTELSE FOR STRĒLING.
VARNING	. SYNLIG OCH OSYNLIG LASERSTR LNING N R DENNA DEL RPPNAD BETRAKTA EJ STR LEN.
VARO!	. AVATTAESSA ALTISTUT N KYV JA N KYM TTM LLE LASERSATEIL YLLE. L KATSO S TEESEN. VRW180

#### 在机器的机壳上。

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

注意 : 若打开会发生可见和不可见的 镭射辐射,请勿受辐射。

VRW1904

AVH-P5950DVD/XN/RC

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WARNING!

The AEL (accessible emission level )of the laser power output is less than CLASS 1 but the laser component is capable of emitting radiation exceeding the limit for CLASS 1.

A specially instructed person should do servicing operation of the apparatus.

Laser diode characteristics

Wave length:

DVD:640 nm to 660 nm CD:770 nm to 810 nm

DVD: 2.48 mW(Emitting period: 9 sec.) CD: 705 \(\rho\)W(Emitting period: unlimited)

#### **Additional Laser Caution**

Transistors Q1101 and Q1102 in PCB drive the laser diodes for DVD and CD respectively. When Q1101 or Q1102 is shorted between their terminals, the laser diodes for DVD or CD will radiate beam. If the top cover is removed with no disc loaded while such short-circuit is continued, the naked eyes may be exposed to the laser beam.

#### **CAUTION**

Danger of explosion if battery is incorrectly replaced.

Replaced only with the same or equivalent type recommended by the manufacture.

Discord used batteries according to the manufacture's instructions.

AVH-P5950DVD/XN/RC

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In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

#### Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

(9) There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

#### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

#### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

#### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

#### 5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

AVH-P5950DVD/XN/RC

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## 1. SERVICE PRECAUTIONS

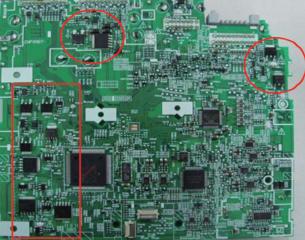
- Service Precautions
- 1) You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
- 2) Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic
- 3) Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
- 4)To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
- 5) After replacing the pickup unit, be sure to skew adjustment.
- 6)During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.
- 7) In case the internal fuse has blown, check the voltage of the rear stage.
- 8) Handling instructions for touch panel
  - Please handle the touch panel with care as it contains glass.
  - Dropping or giving a strong shock may break the panel.
  - Wear gloves, etc. to protect your hands from the glass edges that are not deburred.
- 9) Remove a small board (2 screws) provided for pulling out an RCA line, before removing the mother board.

Red area: Hot area. Be careful not to burn yourself

Moter Unit(Side A)

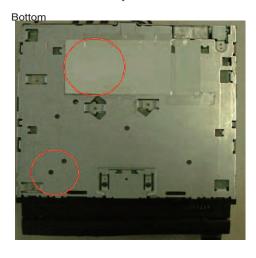


Moter Unit(Side B)



Red-circled area: The heat from hot parts on the B-side of the board is removed from the product bottom through a heat transfer sheet.

Be careful not to burn yourself with the hot area.



















is a trademark of DVD Format/Logo Licensing Corporation.

**NOTES ON SOLDERING** 

• For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.

Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

• Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40°C. Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373°C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

• Parts numbers of lead-free solder:

GYP1006 1.0 in dia.

GYP1007 0.6 in dia.

GYP1008 0.3 in dia.

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# 2. SPECIFICATIONS 2.1 SPECIFICATIONS

Rated power source	(allowable voltage range 12.0 V to 14.4 V DC)
Grounding system Max. current consumption	n
Backup current	
Dimensions (W $\times$ H $\times$ D DIN	,
	178 × 50 × 160 mm 188 × 58 × 33 mm
Chassis Nose	178 × 50 × 165 mm 170 × 46 × 28 mm
Weight	2.4 kg
Display	
Screen size/aspect ratio	7.0 inch wide/16:9 (effective display area: 15 × 87 mm)
Pixels	336 960 (1 440 × 234)
lype	TFT active matrix, transm sive type
,	NTSC/PAL/PAL-M/SECAI compatible
Storage temperature ran-	
Angle adjustment	
Audio	
Maximum power output	50 W $\times$ 4 50 W $\times$ 2/4 $\Omega$ + 70 W $\times$ $\Omega$ (for subwoofer)
Continuous power outpu	t 22 W × 4 (50 Hz to 15 00 Hz, 5% THD, 4 Ω load, bo channels driven)
Load impedance	,
Preout max output level/o	
Equalizer (7-Band Graphi Frequency	c Equalizer): 50/125/315/800/2k/5k/12. Hz
Gain Loudness contour:	±12 dB
	+3.5 dB (100 Hz), +3 dB kHz)

Mid		
High	Mid	
HPF:   S0/63/80/100/125 Hz   Slope	High	. +11 dB (100 Hz), +11 dB
Frequency		
Slope		
Frequency		
Slope		
Gain         +6 dB to −24 dB           Phase         Normal/Reverse           Bass boost:         Gain         +12 dB to 0 dB           DVD Player         DVD video, DVD-VR, Video CD, CD, CD, CD, CD, CD, WMA. MP3, AAC DivX system         DVD video, Video CD, CD, CD, CD-R/RW, DVD-R/RW           Usable discs         DVD video, Video CD, CD, CD, CD-R/RW, DVD-R/RW           Region number:         for Middle East Asian and South African models           ————————————————————————————————————		
Bass boost:         Gain         +12 dB to 0 dB           DVD Player         System         DVD video, DVD-VR, Video CD, CD, CD, WMA, MP3, AAC DivX system           Usable discs         DVD video, Video CD, CD, CD-R/RW, DVD-R/RW           Region number:         for Middle East Asian and South African models	Gain	. +6 dB to -24 dB
DVD Player   System		. Troilliay fictore
System		. +12 dB to 0 dB
CD, CD, WMA, MP3, AAC	DVD Player	
Usable discs	System	CD, CD, WMA, MP3, AAC,
Region number: for Middle East Asian and South African models	Usable discs	. DVD video, Video CD, CD,
for Middle East Asian and South African models	Region number:	CD-R/RW, DVD-R/RW
for Southeast Asian models	for Middle East Asian a	
for South American and Oceanian models	for Southeast Asian m	odels
Signal format:	for South American ar	d Oceanian models
Number of quantization bits         "6/20/24; linear           Frequency response         5 Hz to 44 000 Hz (with DV at sampling frequency 96 kHz)           Signal-to-noise ratio         97 dB (1 kHz) (IEC-A network)           (CD: 96 dB (1 kHz) (IEC-A network))         (CD: 94 dB (1 kHz))           Dynamic range         95 dB (1 kHz)           (CD: 94 dB (1 kHz))         (CD: 94 dB (1 kHz))           Output level:         '.0 Vp-p/75 Ω (±0.2 V)           Video         ".0 Vp-p/75 Ω (±0.2 V)           Number of channels         2 (stereo)           MP3 decoding format         MPEG-1 & 2 Audio Layer 3           WMA decoding format         WPEG-1 & 2 Audio Layer 3           WMA decoding format         MPEG-4 AAC (iTunes® encoded only)           DivX decoding format         MPEG-4 AAC (iTunes® encoded only)           DivX decoding format         Home Theater Ver. 3, 4, 5.2 (.avi .divx)           FFM tuner           Frequency range         87.5 MHz to 108.0 MHz           Usable sensitivity         8 dBf (0.7 μV/75 Ω mono, S/N: 30 dB)           Signal-to-noise ratio         7.5 dB (IEC-A network)           Distortion         0.3 % (at 65 dBf, 1 kHz, mono)           Frequency response         30 Hz to 15 000 Hz (±3 dB           Stereo separation         45 dB (at 65 dBf, 1 kHz)		. 4
**6/20/24; linear		
S Hz to 44 000 Hz (with DV at sampling frequency 96 kHz)   Signal-to-noise ratio		
Signal-to-noise ratio   97 dB (1 kHz) (IEC-A network) (CD: 96 dB (1 kHz) (IEC-A network))		. 5 Hz to 44 000 Hz (with DVI
Work   (CD: 96 dB (1 kHz) (IEC-A network)	Cincel to poince while	
network )	Signai-to-noise ratio	work)
(CD: 94 dB (1 kHz))  Distortion		
Distortion       0.008 % (* kHz)         Output level:       1.0 Vp-p/75 Ω (±0.2 V)         Number of channels       2 (stereo)         MP3 decoding format       MPEG-1 & 2 Audio Layer 3         WMA decoding format       Wer. 7, 7.1. 8, 9, 10 (2ch audio) (Windows Media Player)         AAC decoding format       MPEG-4 AAC (iTunes® encoded only)         DivX decoding format       Home Theater Ver. 3, 4, 5.2 (.avi .divx)         FM tuner         Frequency range       87.5 MHz to 108.0 MHz         Usable sensitivity       8 dBf (0.7 μV/75 Ω mono, S/N: 30 dB)         Signal-to-noise ratio       75 dB (IEC-A network)         Distortion       0.3 % (at 65 dBf, 1 kHz, stereo)         0.1 % (at 65 dBf, 1 kHz, mono)       30 Hz to 15 000 Hz (±3 dB         Stereo separation       45 dB (at 65 dBf, 1 kHz)         AM tuner         Frequency range       531 kHz to 602 kHz (9 kHz)         530 kHz to 640 kHz (70 kHz)       640 kHz (70 kHz)         Whether       18 μV (S/N: 20 dB)	Dynamic range	
Video       0 Vp-p/75 Ω (±0.2 V)         Number of channels       2 (stereo)         MP3 decoding format       MPEG-1 & 2 Audio Layer 3         WMA decoding format       Ver. 7, 7.1, 8, 9, 10 (2ch audio)         (Windows Media Player)       MPEG-4 AAC (iTunes® encoded only)         DivX decoding format       Home Theater Ver. 3, 4, 5.2 (.avi .divx)         FM tuner         Frequency range       87.5 MHz to 108.0 MHz         Usable sensitivity       8 dBf (0.7 μV/75 Ω mono, S/N: 30 dB)         Signal-to-noise ratio       75 dB (IEC-A network)         Distortion       0.3 % (at 65 dBf, 1 kHz, stereo)         0.1 % (at 65 dBf, 1 kHz, mono)       30 Hz to 15 000 Hz (±3 dB         Stereo separation       45 dB (at 65 dBf, 1 kHz)         AM tuner         Frequency range       531 kHz to 602 kHz (9 kHz)         530 kHz to 600 kHz (° 0 kHz)       602 kHz (9 kHz)         530 kHz to 600 kHz (° 0 kHz)       600 kHz)		
MP3 decoding format	Video	
audio) (Windows Media Player)  AAC decoding format		
(Windows Media Player) AAC decoding format	WMA decoding format	
AAC decoding format		(Windows Media Player)
DivX decoding format   Home Theater Ver. 3, 4, 5.2	AAC decoding format	
FM tuner  Frequency range	DivX decoding format	. Home Theater Ver. 3, 4, 5.2
Frequency range		(.avi .divx)
Usable sensitivity		07 E MULT 12 400 0 MULT
75 dB (IEC-A network)   Distortion		. 8 dBf (0.7 $\mu$ V/75 $\Omega$ , mono,
stereo) 0.1 % (at 65 dBf, 1 kHz, mono) Frequency response		. 75 dB (IEC-A network)
mono) Frequency response	Distortion	stereo)
AM tuner Frequency range531 kHz to ^ 602 kHz (9 kH 530 kHz to ^ 640 kHz (7 0 kHz)  Usable sensitivity18 µV (S/N: 20 dB)		
Frequency range531 kHz to ^ 602 kHz (9 kH 530 kHz to ^ 640 kHz (^ 0 kHz) Usable sensitivity84V (S/N: 20 dB)		
530 kHz to ^ 640 kHz (^ 0 kHz) Usable sensitivity18 µV (S/N: 20 dB)	AM tuner	
Usable sensitivity18 µV (S/N: 20 dB)	Frequency range	530 kHz to 1640 kHz (10
	Usable sensitivity	
	Signal-to-noise ratio	. 65 dB (IEC-A network)

Output .......byp: 10 mw/sr per Infrared LED

Infrared remote control Wavelength ......945 nm

### 2.2 DISC/CONTENT FORMAT

#### **Playable discs**

DVD, Video CD and CD discs that display the logos shown below can be played back on this player.

#### **DVD** video



#### **Video CD**



#### CD





#### **Motes**

- is a trademark of DVD Format/Logo Licensing Corporation.
- This player can only play back discs bearing the marks shown above.

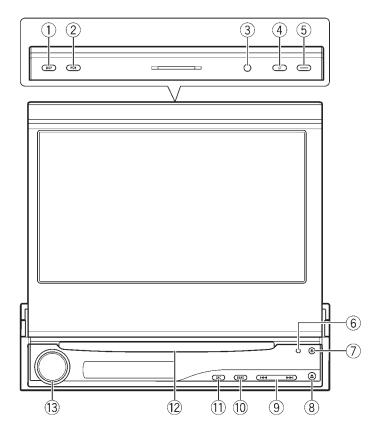
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#### 2.3 PANEL FACILITIES



### What's What Head unit

### ① DISPLAY button

Press to turn the information display on or off when the video is displayed.

Press and hold to switch between the displays on the sub-display.

 When a rear view camera video is displayed, press and hold **DISPLAY** return to the source display.

#### 2 PGM button

Press to operate the preprogrammed functions for each source.

#### **3** Ambient light sensor

Senses ambient light. This system automatically adjusts the brightness of the display to compensate for ambient light.

#### **4** FLIP DOWN button

Press to turn the LCD panel horizontal temporarily from upright position.

#### **⑤ OPEN/CLOSE button**

Press to open or close the LCD panel.

#### 6 RESET button

Press to return to the factory settings (initial settings).

#### **⑦ DETACH** button

Press to remove the front panel from the head unit.

AVH-P5950DVD/XN/RC

#### **8** EJECT button

Press to eject a disc from this unit.

#### 

Press to do manual seek tuning, fast forward, reverse and track search controls.

#### **10** BAND/ESC button

Press to select among three FM bands and one AM band and to cancel the control mode of functions.

#### **11** SOURCE button

This unit is turned on by selecting a source. Press to cycle through all the available sources.

#### **12** Disc loading slot

Insert a disc to play.

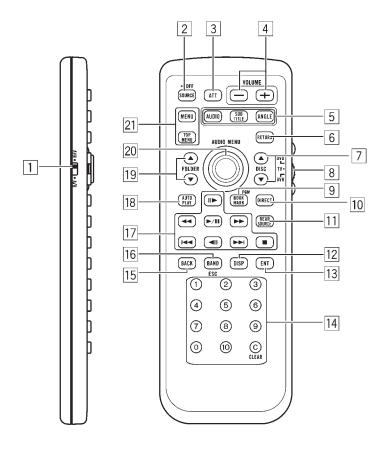
#### **3 VOLUME/ATT button**

Rotate it to increase or decrease the volume.

Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

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#### **Remote control**

	Button names	AVH mode	DVD mode	
1	Remote control selection switch	Switch to change the setting of the remote control.		
2	SOURCE button	Press to cycle through all the available sources. Press and hold to turn the source off.		
3	ATT button	Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.		
4	VOLUME buttons	Press to increase or decrease the volume.		
	AUDIO button	Press to change the audio language during DVD playback.		
5	SUBTITLE button	Press to change the subtitle language during DVD playback.		
	ANGLE button	Press to change the viewing angle during DVD playback.		
6	RETURN button	Press to display the PBC (playback control) menu during PBC playback.		

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	Button names	AVH mode	DVD mode
7	<b>▲</b> /▼ buttons ( <b>DISC</b> )	Not used.	Remote control code: AVH or B Not used. Remote control code: A Press to select the next/previous disc.
		Switch the operation mode between <b>AVH AVH</b> . For details, refer to <i>Using the remote</i> next page.	
9	BOOKMARK button/ PGM button	Press to operate the preprogrammed functions for each source. (Refer to Using the PGM button on page 56.)	Press to turn the bookmark function on or off when your DVD player features bookmark function. For details, refer to DVD player's operation manual.
10	<b>DIRECT</b> button	Not used.	
11 REAR SOURCE button		Not used.	Remote control code: AVH Not used. Remote control code: A or B Press to turn the DVD player on or off.
12 DISPLAY button Press to		Press to select different displays.	Remote control code: AVH Not used. Remote control code: A or B Press to select different displays.
13 ENTERTAINMENT but- ton		Not used.	
0 to 10 buttons, CLEAR button		Press 0 to 10 to input numbers. Buttons 1 to 6 can operate the preset tuning for the tuner or disc changing for DVD player or multi-CD player. Press CLEAR to clear the input numbers.	Press to select a menu item on the Video CDs featuring PBC (playback control).
15	BACK button	Press to return to the previous display.	Not used.
16	BAND/ESC button	Press to select the tuner band when tuner is selected as a source. Also used to cancel the control mode of functions. Press to switch mode between compressed audio and audio data (CD-DA) when playing discs with compressed audio and audio data (CD-DA) such as CD-EXTRA and MIXED-MODE CDs.	Press to switch mode between compressed audio and audio data (CD-DA) when playing discs with compressed audio and audio data (CD-DA) such as CD-EXTRA and MIXED-MODE CDs.

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	Button names	AVH mode	DVD mode	
	PLAY/PAUSE (►/II) button	Press to switch sequentially between playback and pause.		
	<b>REVERSE</b> (◄◄) button	Press to perform fast reverse.		
	<b>FORWARD</b> (►►) button	Press to perform fast forward.		
17	PREVIOUS (I◄◄) button	Press to return to the previous track (chapter).		
	NEXT (►►I) button	Press to go to the next track (chapter).		
	STEP (II►/◀II) buttons	Press to move ahead one frame at a time during DVD/VideoCD playback. Press and hold for one second to activate slow playback.		
	STOP (■) button	Press to stop playback.		
18	AUTO PLAY button	Press to turn the DVD auto-playback funct	tion on or off.	
19	<b>▲/▼</b> buttons ( <b>FOLDER</b> )	Press to select the next/previous folder.		
20	Joystick	Move to do fast forward, reverse and track search controls. Click to recall <b>MENU</b> .	Move to select a menu on the DVD menu.	
24	MENU button	Press to display the DVD menu during DVD playback.		
21	TOP MENU button	Press to return to the top menu during DVD playback.		

## Using the remote control operation mode switch

There are three remote control operation modes on the remote control.

#### **AVH mode operation**

When operating this unit by remote control, the mode is normally switched to **AVH**.

#### **DVD** mode operation

If you switch the mode to **DVD**, the joystick and **0** to **10** operations are changed for DVD player.

- When you want to operate the following functions, switch the mode to DVD:
  - When operating the DVD menu by using the joystick.

• When operating the PBC menu by using **0** to **10**.

#### TV mode operation

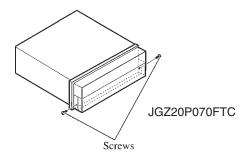
TV operations available with a Pioneer TV tuner (e.g. GEX-P5750TV(P)) can be controlled with **AVH** mode. **TV** mode is not used with this unit.

• For details concerning operation, refer to the TV tuner's operation manuals.

#### Fastening the front panel

If you do not plan to detach the front panel, the front panel can be fastened with supplied screws.

• Fix the front panel to the unit using screws after removing the trim ring.



AVH-P5950DVD/XN/RC

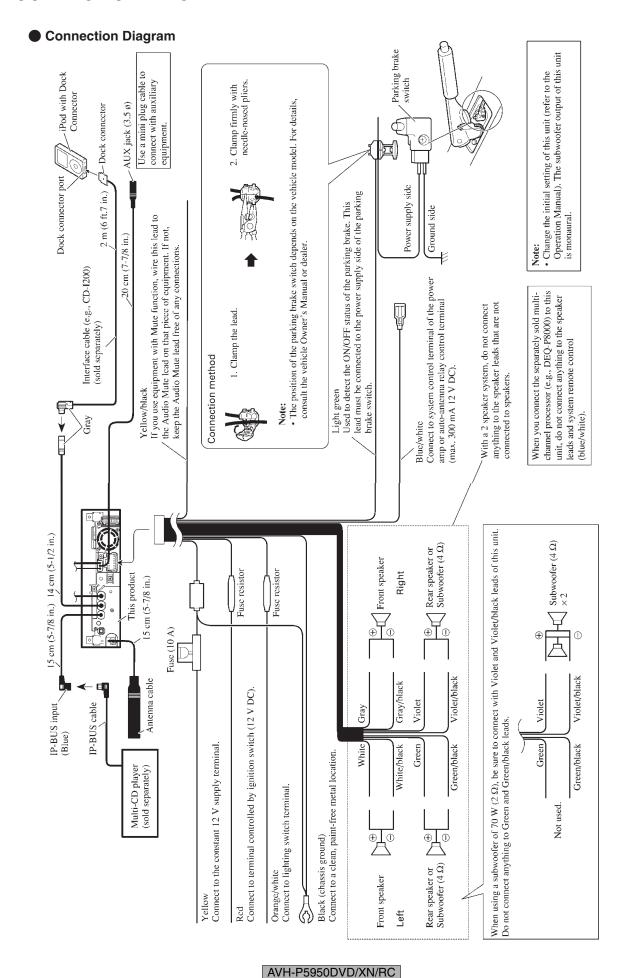
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## 3. BASIC ITEMS FOR SERVICE 3.1 CHECK POINTS AFTER SERVICING

#### **CHECK POINTS AFTER SERVICING (AVH)**

To keep the product quality after servicing, please confirm following check points.

No.		Procedures	Check points	Remark
1		Confirm whether the customer complain has	The customer complain must not be	]
		been solved.	reappeared.	
		If the customer complain occurs with the	Display, video, audio and operations must	
		specific media, use it for the operation check.	be normal.	
2	Flap-mecha	Check the operation of the flap mechanism.	The flap mechanism operation must be	When flap-mecha
			smooth without making the noise and scratches.	exists
3	DVD	Measure playback error rates at the	Deterioration of mecha-drive can be	
		innermost and outermost tracks by using the	checked.	
		test mode with the following disc.	The error rates must be less than 2.5e-4.	
		DVD test disc (GGV1025)		]
4	DVD	Play back a DVD.	Display, video, audio and operations must	
		(Menu operation; Title/chapter search)	be normal.	]
5	CD	Play back a CD.	Display, audio and operations must be	
		(Track search)	normal.	
6	FM/AM tuner	Check FM/AM tuner action.	Display, audio and operations must be	
		(Seek, Preset)	normal.	
		Switch band to check both FM and AM.		
7	TV tuner	Check TV tuner action.	Display, video, audio and operations must	
		(Seek; Preset)	be normal.	
8		Check whether no disc is inside the product.	The media used for the operating check	
			must be ejected.	
9		Appearance check	No scratches or dirt on its appearance after	
			receiving it for service.	

See the table below for the items to be checked regarding video and audio:

Item to be checked regarding video	Item to be checked regarding audio
Block-noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

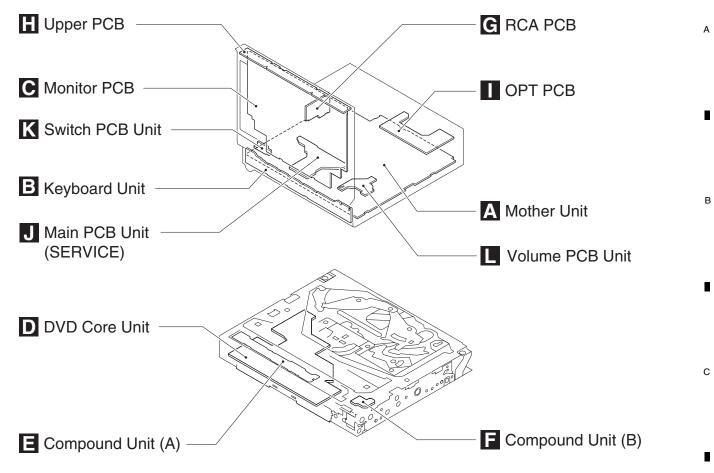
AVH-P5950DVD/XN/RC

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#### 3.2 PCB LOCATIONS



Unit Number : Unit Number : Unit Number :

(RC,RD,RI) Mother Unit

Unit Number Unit Name

Unit Name : Keyboard Unit Unit Number : CWN2330 Unit Name : Monitor Unit

Monitor Unit Consists of Monitor PCB Upper PCB

Unit Number : YWX5005 Unit Name : DVD Core Unit Unit Number : CWX3154

Unit Name : Compound Unit(A)

Unit Number : CWX3394

Unit Name : Compound Unit(B)

DVD Amp Assy Consists of Mother Unit OPT PCB RCA PCB

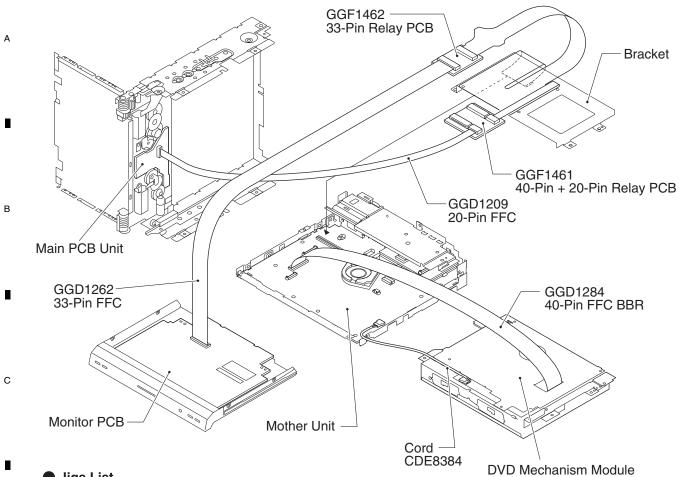
Unit Number : CXX2316

Unit Name : Main PCB Unit(SERVICE)

Unit Number : CZW5029
Unit Name : Switch PCB Unit
Unit Number : CZW5028
Unit Name : Volume PCB Unit

AVH-P5950DVD/XN/RC

## 3.3 JIG CONNECTION DIAGRAM



#### Jigs List

Name	Jig No.	Remarks
40-Pin FFC BBR	GGD1284	DVD Mechanism Module <> DVD Amp Assy
33-Pin Relay PCB	GGF1462	DVD Amp Assy <> Monitor Unit
33-Pin FFC	GGD1262	DVD Amp Assy <> Monitor Unit
40-Pin + 20-Pin Relay PCB	GGF1461	DVD Amp Assy <> Main PCB Unit
20-Pin FFC	GGD1209	DVD Amp Assy <> Main PCB Unit
Disc	GGV1018	Skew adjustment
TORX driver(T2)	GGK1095	Skew adjustment
Bond	GEM1033	Skew adjustment

AVH-P5950DVD/XN/RC

#### Grease List

Name	Jig No.	Remarks	
Grease	GEM1024	DVD Mechanism Module and Chassis	
Grease	GEM1043	DVD Mechanism Module and Chassis	
Grease	GEM1045	DVD Mechanism Module	
Grease	GEM1050	DVD Mechanism Module	
Locking agents	1401M	DVD Mechanism Module (1401M:produced by THREE BOND)	
Grease	GEM1011	Chassis	
Grease	GEM1047	Chassis	
Grease	GEM1071	Chassis	
Grease	GEM1072	Chassis	

## CLEANING

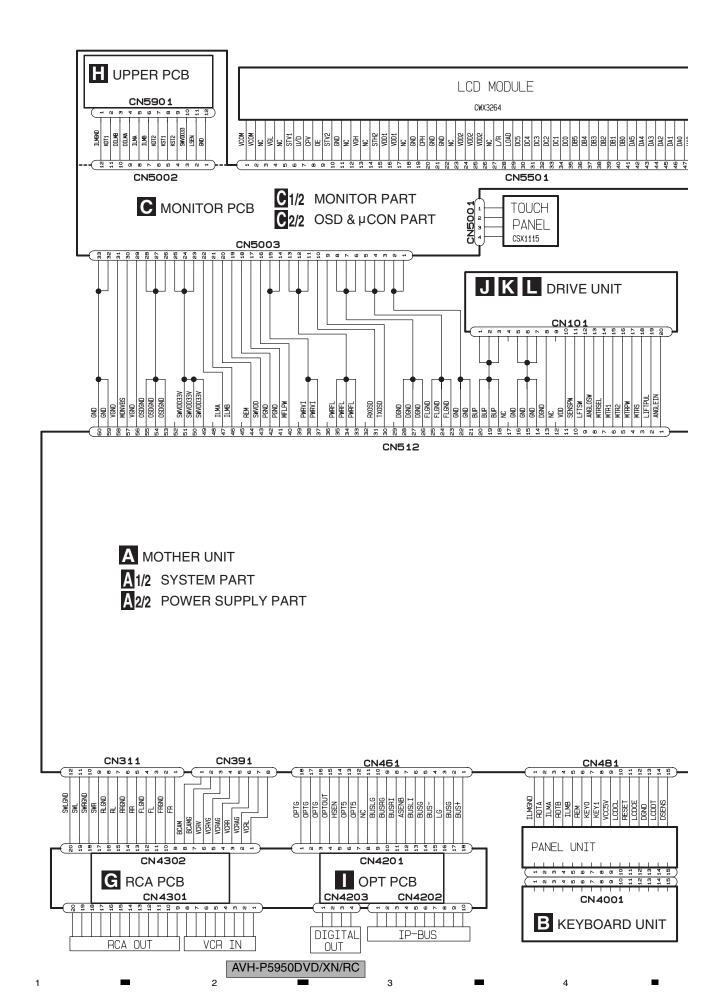
Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

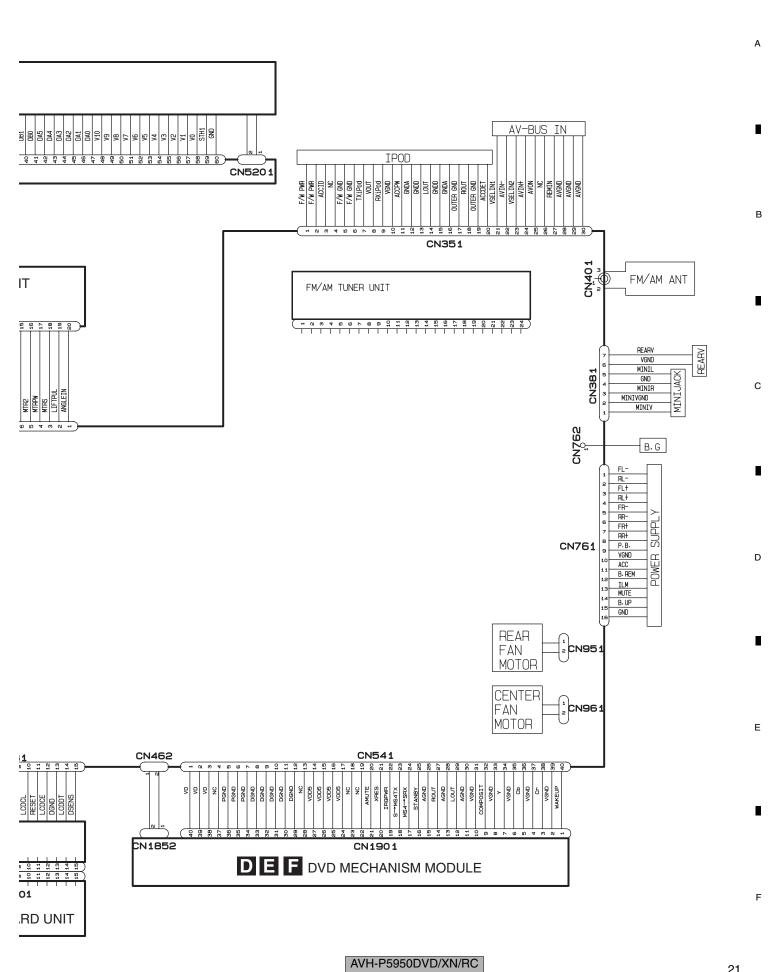
Portions to be cleaned	Cleaning tools
	Cleaning liquid: GEM1004 Cleaning paper: GED-008

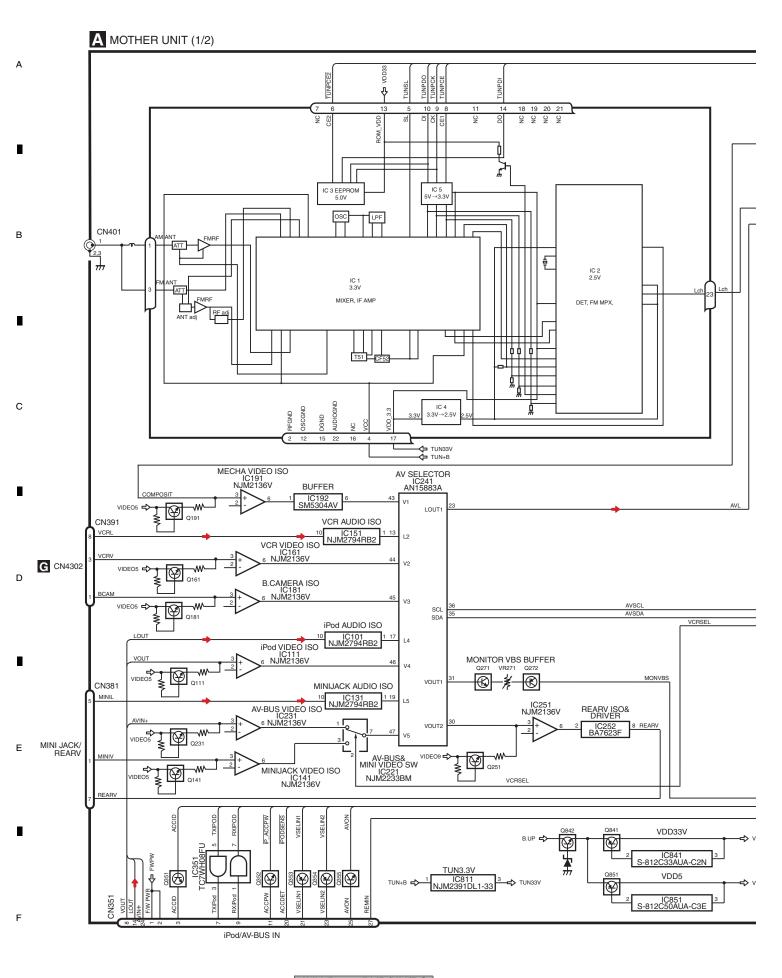
Portions to be cleaned	Cleaning tools
Fans	Cleaning paper: GED-008

AVH-P5950DVD/XN/RC

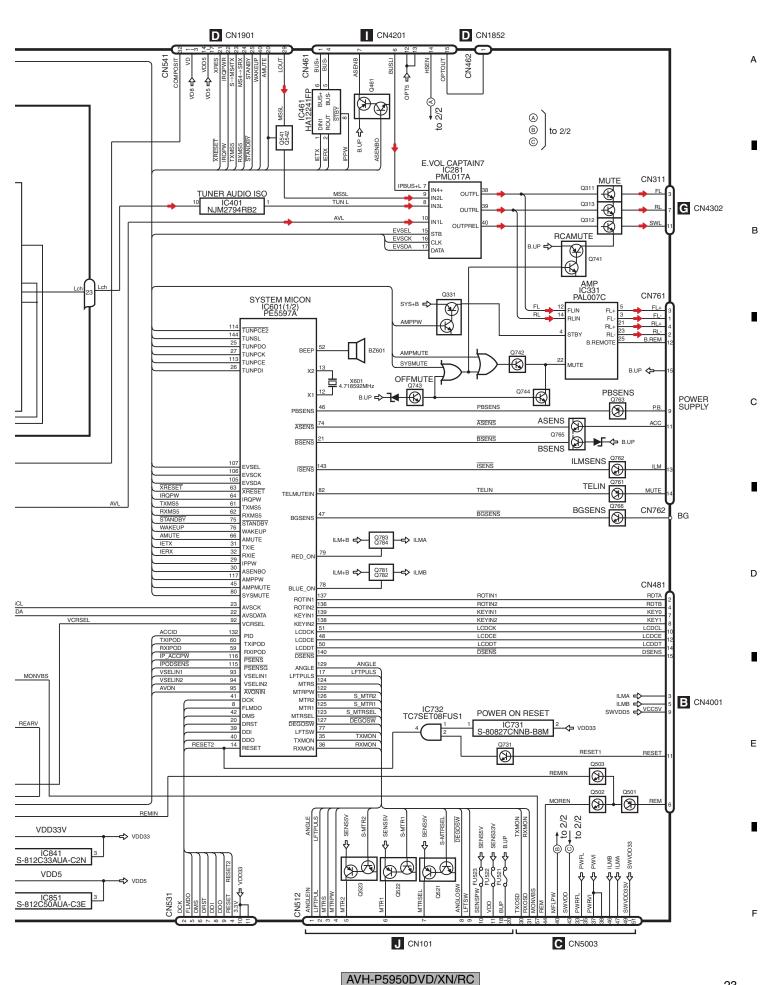
## 4. BLOCK DIAGRAM







AVH-P5950DVD/XN/RC



A MOTHER UNIT (2/2) TUN+B SYSTEM MICON IC601(2/2) PE5597A IC812 BA00DD0WHFP B.UP 🖒 SYSPW1 VDD5 🖒 SYS+B IC821 BA00DD0WHFP B.UP ⇒ SYS+B SYSPW1 CAPTAIN7 HIOUT PW IC832 5 LT3461AES6 2 IC831 S-812C56AUA-C3K SYSPW1 ACC33V VDD33 ➡ → ACC33V  $\Theta$ VDD5 PWVI FU891 B.UP ➡ Q891 Q892 **⇔** PWVI ACCPW ACCPW1 ILM+B IC861 BA00DD0WHFP B.UP ➡ d⇒ ILM+B OPT5 ACCPW1 ⇔ OPT5 to 1/2 PWFL FU901 VDCONT Q901 Q902 B.UP → ⇒ PWFL →®-to 1/2 CENTER FAN\_ CANTER FAN6V CN961 FU961 MFLPW VDCONT1 Q963 DDC FOR MS5AV code2 IC971 AN8011S Q972 Q974 B.UP ⇒ VCC OUT1 VDCONT1 Q973 Q975 OUT2 DDCCTL VR971 REAR FAN6V CN951 B.UP **<>**→ Q951 FU951 COOLCNT1 COOLCNT2 Q954 VIDEO9V B.UP ➡ IC801 BA00DD0WHFP VIDEO5V VPW **Y** ⇒ VIDEO5 SENS33V VDD33 ⇒ SENS33V SENS5 SENS5V VDD5 ⇒ SENS5 SWVDD5 VDD5 ➡ ⇒ SWVDD5 SWVDD SWVDD33 IC852 BA00CC0WFP VDD5 ➡ → SWVDD33 SWVDD SWVDD -©**→** FIREWIRE PW to 1/2 Q871 **⇒** FWPW Q875  $\bigcirc$ PPOWER  $^{\otimes}$ to 1/2

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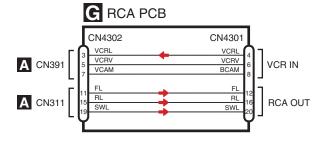
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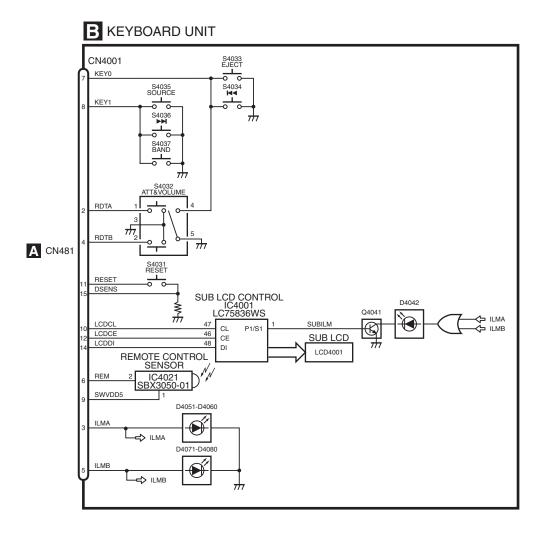
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AVH-P5950DVD/XN/RC



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AVH-P5950DVD/XN/RC

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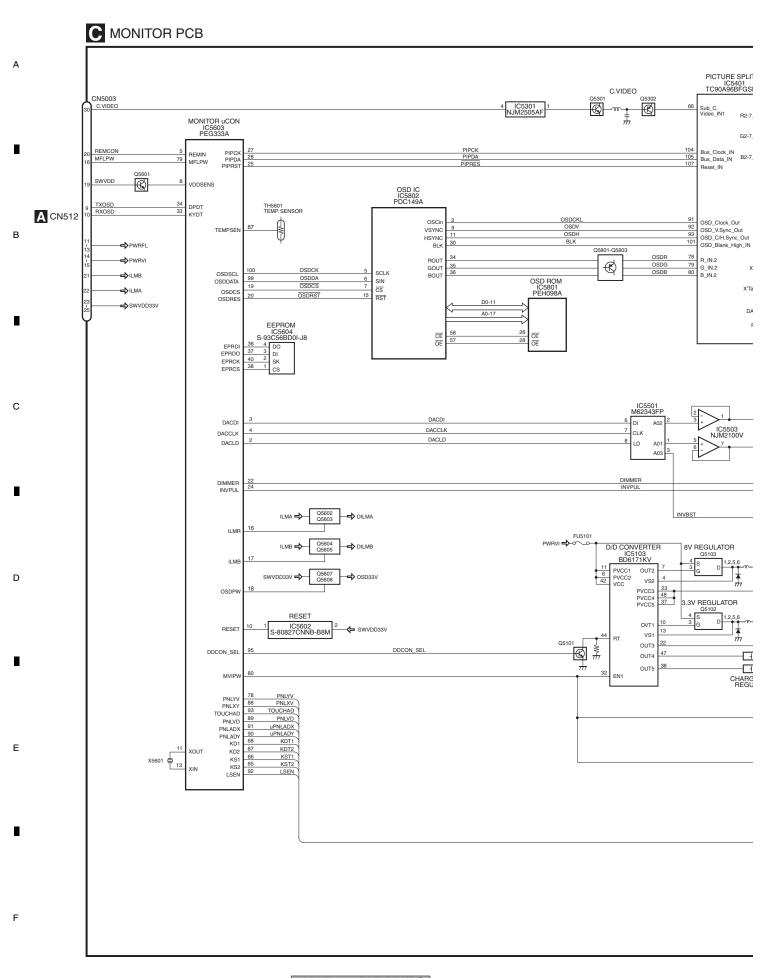
25

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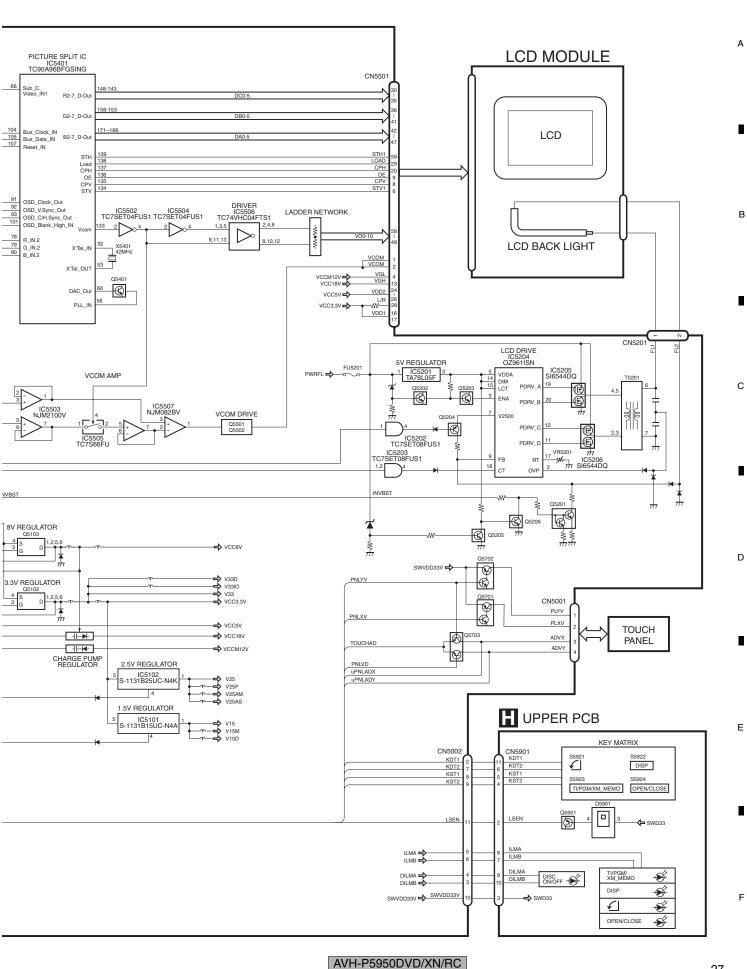
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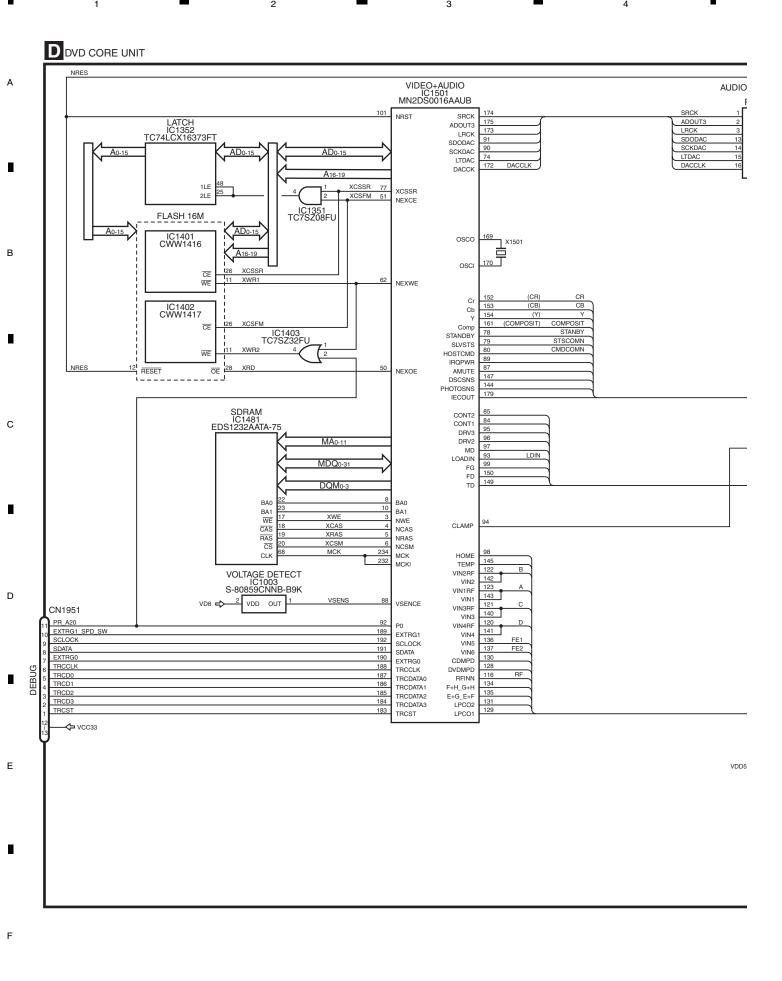
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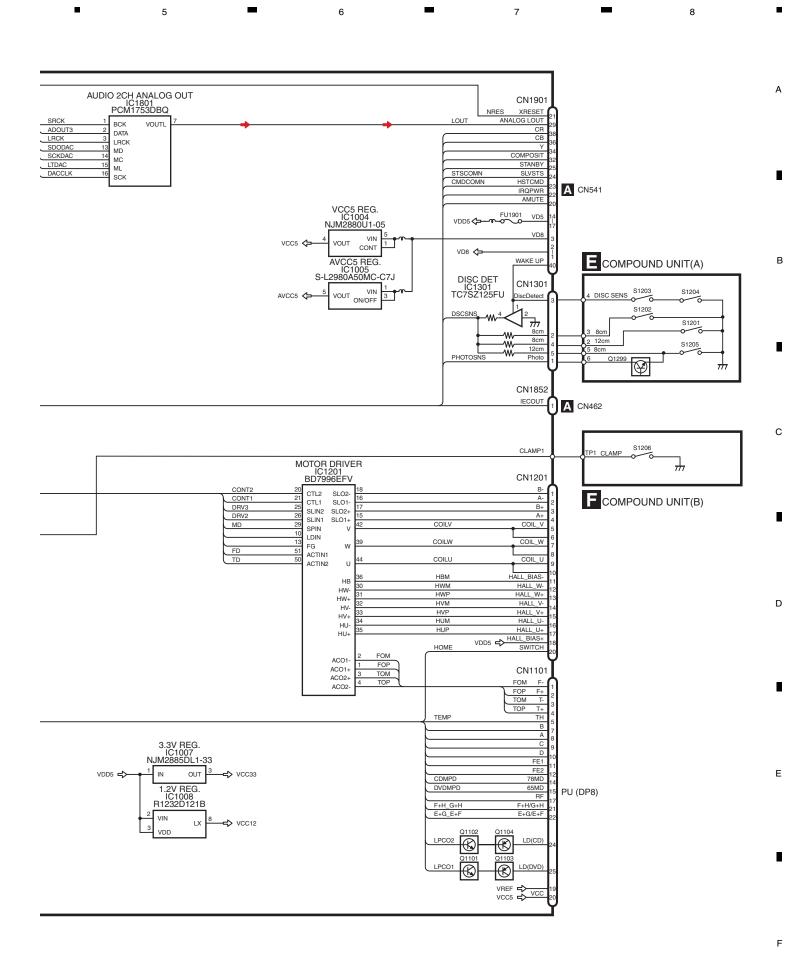


AVH-P5950DVD/XN/RC 3

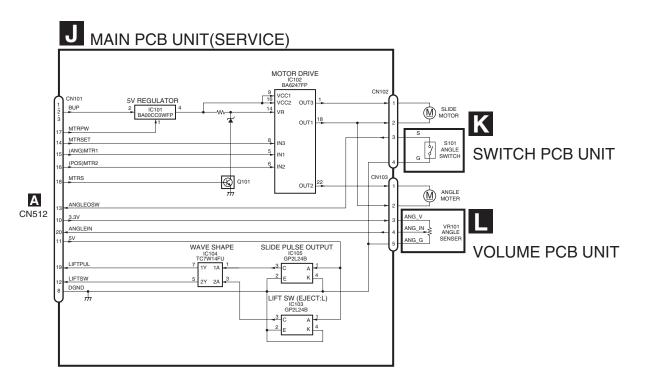




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AVH-P5950DVD/XN/RC



AVH-P5950DVD/XN/RC

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COM COM COM COM COM COM COM COM 2EC22 SEC34 SEC22 2EC25 SEC21 2EC30 SEC56 SEC28 2EC57 2EC56 2EC52 2EC5¢ 2EC53 2EC55 SEC71 2EC50 SEC16 SEC18 2EC11 SEC10 2EC12 2EC1¢ 2EC13 SECIS SEC11 2EC10 SEC 6 SEC ZEC SEC SEC SEC SEC COMMON **SEC** SEC

AVH-P5950DVD/XN/RC

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SEGMENT

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DSENS:

0 [v] to 0.85 [v] = OFF

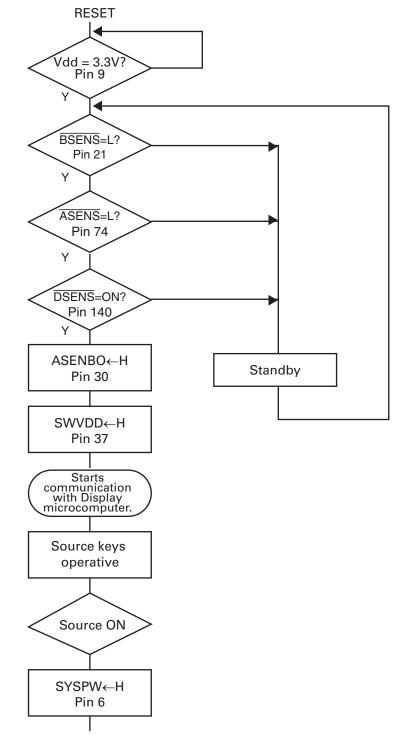
0.85 [v] to 2.45 [v] = ON

2.45 [v] to 3.3 [v] = OFF

С

С

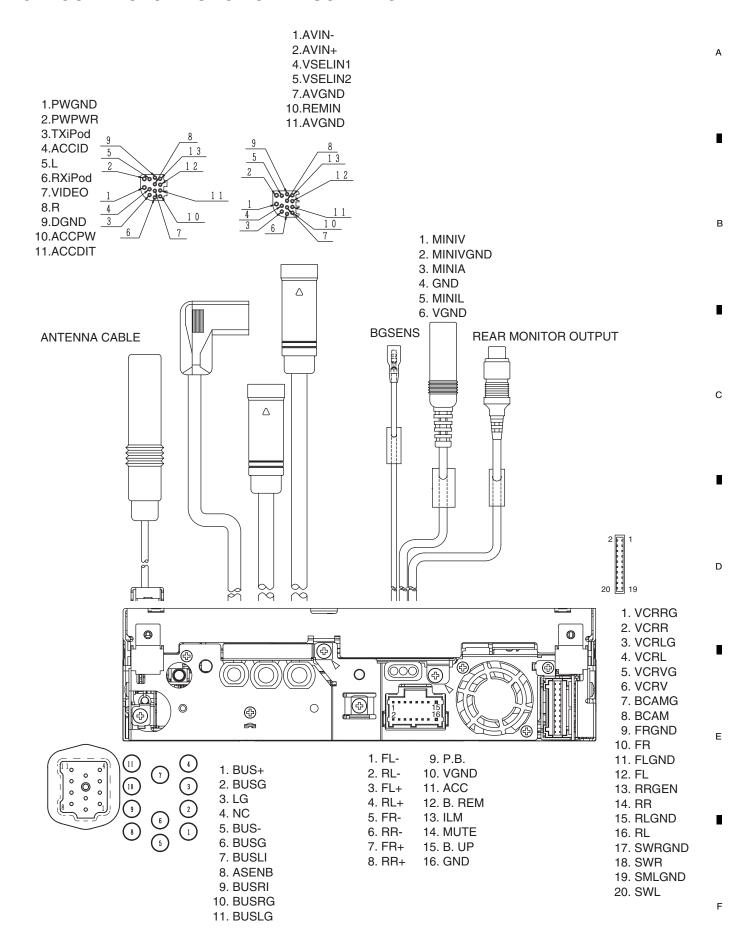
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Completes power-on operation. (After that, proceed to each source operation)

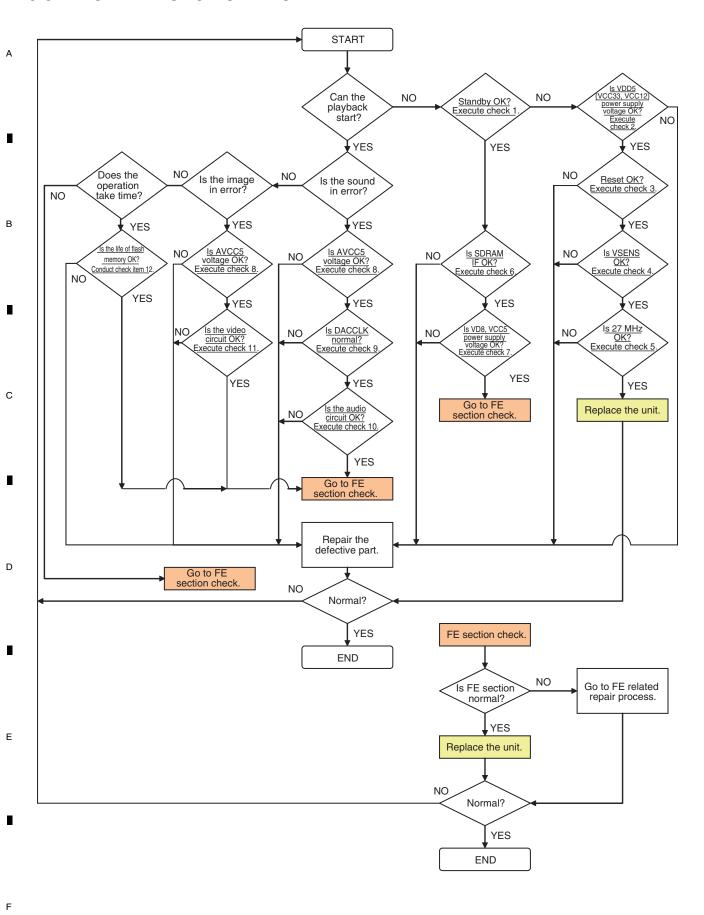
AVH-P5950DVD/XN/RC

#### **5.2 CONNECTOR FUNCTION DESCRIPTION**



AVH-P5950DVD/XN/RC

#### 5.3 BACK END SECTION FLOW



AVH-P5950DVD/XN/RC

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### Check 1: Standby OK?

<Check> Check the voltage at the "STANBY" test point while the power is on. Use the "DGND1" test point at the reference.

NO.	Check point	Module No.	Specification value	Unit
1	STANBY-DGND1	ALL	VCC33 V-	V
			0.6 V or more	

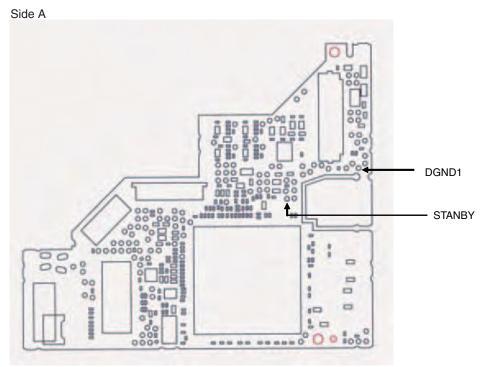


Fig 1.1: STANBY check point

AVH-P5950DVD/XN/RC

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#### Check 2: Is VDD5 (VCC33, VCC12) power supply voltage OK?

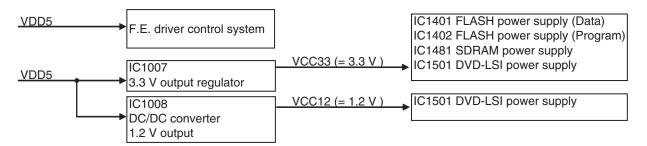


Fig 2.1: Power supply configuration

<Check> Check the voltage at the "VDD5\_3, VCC33\_3 and VCC12\_1" test point while the power is on. Use the "DGND1" test point at the reference.

NO.	Check point	Module No.	Specification value	Unit
1	VDD5_3 - DGND1	ALL	$5.0 \pm 0.4$	٧
2	VCC33_3 - DGND1	ALL	3.3 ± 0.15	٧
3	VCC12_1 - DGND1	ALL	1.2 ± 0.12	٧

#### Side A

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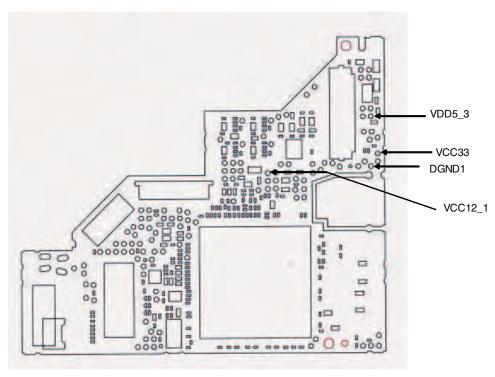


Fig 2.2: VDD5, VCC33, VCC12 voltage check points

<Check> Check the voltage at the "XRES" test point while the power is on. Use the "DGND1" test point at the reference.

NO.	Check point	Module No.	Specification value	Unit	
1	XRES-DGND1	ALL	VCC33 ×	٧	
			0.7 or more		

#### Side A

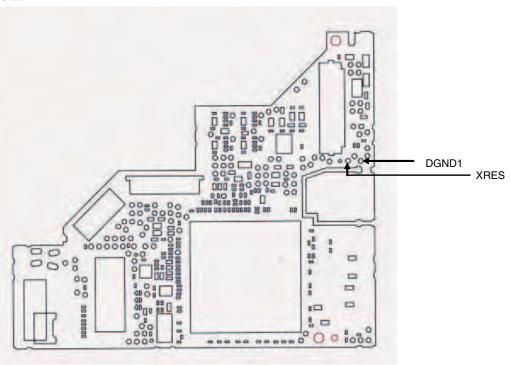


Fig 3.1: RESET check point

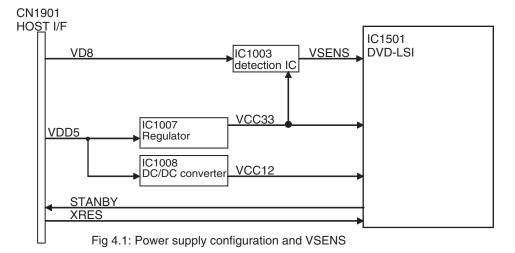
AVH-P5950DVD/XN/RC

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## Check 4: Is VSENS OK?



<Check> Check the voltage at the "VSENS" test point while the power is on. Use the "DGND1" test point at the reference.

NO. Check point		Module No.	Specification value	Unit
1	VSENS - DGND1	ALL	VCC33 × 0.7	V
			or more	

#### Side A

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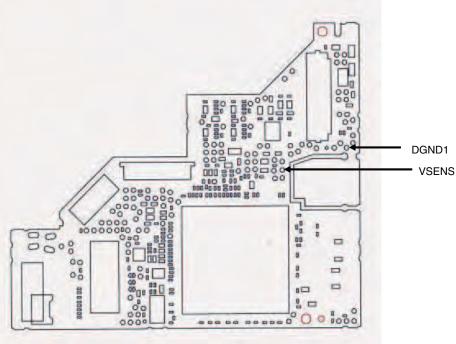


Fig 4.2: VSENS check point

AVH-P5950DVD/XN/RC

<Outline> Each clock is created inside the IC1501 using the 27 MHz master crystal oscillator (X1501).

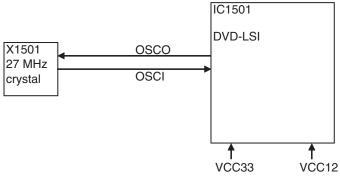
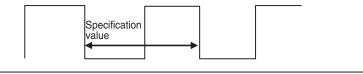


Fig 5.1: Clock configuration

<Check method> Turn the power on, and check with DGND being the reference.
In case of NG, check the applicable line, periphery of IC1501, soldering of the peripheral components and defective components.

NO.	Check point	Module No.	Specification value	Unit	
2	IC1501 169pin	ALL	27 MHz		
	10 1501 109piii	ALL	± 50 ppm	ppm	



GND

Fig 5.2: Clock specification value

Side A

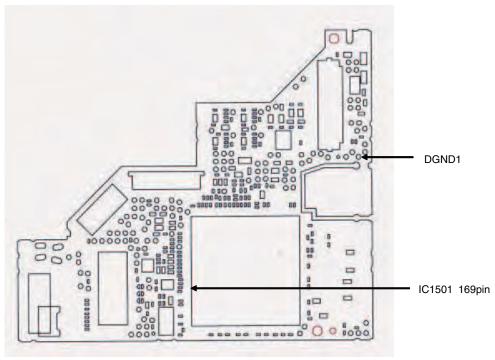


Fig 5.3: 27 MHz check point

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## Check 6: Is SDRAM I/F OK?

<Outline> In order to secure the MPEG stream data as the buffer, the capacity of communication I/F SDRAM between the LSI and the memory is 128Mbit. Be careful as XCSM, XWE, XCAS, XRAS and XSCM of IC1481 are called differently in IC1501, namely NCSM, NWE, NCAS, NRAS, NCSM.

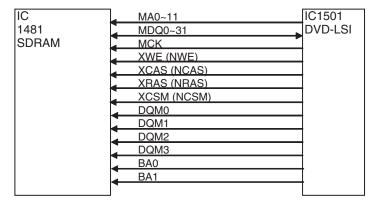


Fig 6.1: SDRAM I/F

AVH-P5950DVD/XN/RC

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NO.	Signal name	Check point	1	Check point	2	Specification value
1	MAO	IC1481	25pin	IC1501	16pin	$56 \Omega \pm 5 \%$
2		IC1481	26pin	IC1501	18pin	$56 \Omega \pm 5 \%$
3	MA2	IC1481	27pin	IC1501	20pin	$56 \Omega \pm 5 \%$
4	MA3	IC1481	60pin	IC1501	22pin	$56 \Omega \pm 5 \%$
5	MA4	IC1481	61pin	IC1501	21pin	$56 \Omega \pm 5 \%$
6	MA5	IC1481	62pin	IC1501	19pin	$56 \Omega \pm 5 \%$
7	MA6	IC1481	63pin	IC1501	17pin	$56 \Omega \pm 5 \%$
8	MA7	IC1481	64pin	IC1501	15pin	$56 \Omega \pm 5 \%$
9	MA8	IC1481	65pin	IC1501	11pin	$56 \Omega \pm 5 \%$
10	MA9	IC1481	66pin	IC1501	9pin	$56 \Omega \pm 5 \%$
11	MA10	IC1481	24pin	IC1501	14pin	$56 \Omega \pm 5 \%$
12	MA11	IC1481	21pin	IC1501	7pin	$56 \Omega \pm 5 \%$
13	MDQ0	IC1481	2pin	IC1501	237pin	$56 \Omega \pm 5 \%$
14		IC1481	4pin	IC1501	239pin	$56 \Omega \pm 5 \%$
15	MDQ2	IC1481	5pin	IC1501	241pin	$56 \Omega \pm 5 \%$
16	MDQ3	IC1481	7pin	IC1501	243pin	$56 \Omega \pm 5 \%$
17	MDQ4	IC1481	8pin	IC1501	248pin	$56 \Omega \pm 5 \%$
18	MDQ5	IC1481	10pin	IC1501	250pin	$56 \Omega \pm 5 \%$
19	MDQ6	IC1481	11pin	IC1501	252pin	$56 \Omega \pm 5 \%$
20	MDQ7	IC1481	13pin	IC1501	254pin	$56 \Omega \pm 5 \%$
21	MDQ8	IC1481	74pin	IC1501	253pin	$56 \Omega \pm 5 \%$
22	MDQ9	IC1481	76pin	IC1501	251pin	$56 \Omega \pm 5 \%$
23	MDQ10	IC1481	77pin	IC1501	249pin	$56 \Omega \pm 5 \%$
24	MDQ11	IC1481	79pin	IC1501	244pin	$56 \Omega \pm 5 \%$
25	MDQ12	IC1481	80pin	IC1501	242pin	$56 \Omega \pm 5 \%$
26	MDQ13	IC1481	82pin	IC1501	240pin	$56 \Omega \pm 5 \%$
27	MDQ14	IC1481	83pin	IC1501	238pin	$56 \Omega \pm 5 \%$
28	MDQ15	IC1481	85pin	IC1501	236pin	56 Ω ± 5 %
29	MDQ16	IC1481	31pin	IC1501	29pin	$56 \Omega \pm 5 \%$
30	MDQ17	IC1481	33pin	IC1501	31pin	$56 \Omega \pm 5 \%$
31	MDQ18	IC1481	34pin	IC1501	33pin	56 Ω ± 5 %
32	MDQ19	IC1481	36pin	IC1501	37pin	56 Ω ± 5 %
33	MDQ20	IC1481	37pin	IC1501	39pin	56 Ω ± 5 %
34	MDQ21	IC1481	39pin	IC1501	41pin	56 Ω ± 5 %
35	MDQ22	IC1481	40pin	IC1501	43pin	$56 \Omega \pm 5 \%$
36	MDQ23	IC1481	42pin	IC1501	45pin	56 Ω ± 5 %
37	MDQ24	IC1481	45pin	IC1501	44pin	56 Ω ± 5 %
38	MDQ25	IC1481	47pin	IC1501	42pin	56 Ω ± 5 %
39	MDQ26	IC1481	48pin	IC1501	40pin	56 Ω ± 5 %
40	MDQ27	IC1481	50pin	IC1501	38pin	56 Ω ± 5 %
41	MDQ28	IC1481	51pin	IC1501	34pin	$56 \Omega \pm 5 \%$
42	MDQ29	IC1481	53pin	IC1501	32pin	$56 \Omega \pm 5 \%$
43	MDQ30	IC1481	54pin	IC1501	30pin	56 Ω ± 5 %
44	MDQ31	IC1481	56pin	IC1501	28pin	56 Ω ± 5 %
45	MCK	IC1481	68pin	IC1501	234pin	$0.17 \Omega \pm \text{or lower}$
	XWE	IC1481	17pin	IC1501	3pin	$56 \Omega \pm 5 \%$
47		IC1481	18pin	IC1501	4pin	$56 \Omega \pm 5 \%$
48	XRAS	IC1481	19pin	IC1501	5pin	$56 \Omega \pm 5 \%$
	XCSM	IC1481	20pin	IC1501	6pin	$56 \Omega \pm 5 \%$
50		IC1481	16pin	IC1501	255pin	56 Ω ± 5 %
51	DQM1	IC1481	71pin	IC1501	256pin	$56 \Omega \pm 5 \%$
52	DQM2	IC1481	28pin	IC1501	26pin	$56 \Omega \pm 5 \%$
	DQM3	IC1481	59pin	IC1501	27pin	$56 \Omega \pm 5 \%$
	BA0	IC1481	22pin	IC1501	8pin	$56 \Omega \pm 5 \%$
55	BA1	IC1481	23pin	IC1501	10pin	$56 \Omega \pm 5 \%$

AVH-P5950DVD/XN/RC

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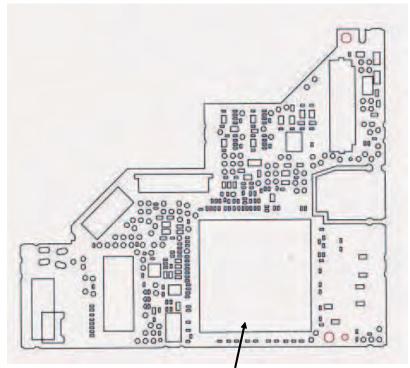
Check point 1 (IC1481)

Side A

В

С

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Check point 2 (IC1501)

Fig 6.2: SDRAM I/F check point

AVH-P5950DVD/XN/RC

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## Check 7: Is VD8, VCC5 power supply voltage OK?

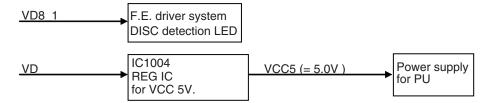


Fig 7.1: Power supply configuration

<Check> Check the voltage at the "VD8\_1, VD and VCC5\_1" test point while the power is on. Use the "PGND3 and AGND1" test point at the reference.

NO.	Check point	Module No.	Specification value	Unit
1	VD8_1 - PGND3	ALL	$8.0 \pm 0.4$	٧
2	VD - PGND3	ALL	$8.0 \pm 0.4$	٧
3	VCC5_1- AGND1	ALL	$5.0 \pm 0.1$	٧

#### Side A

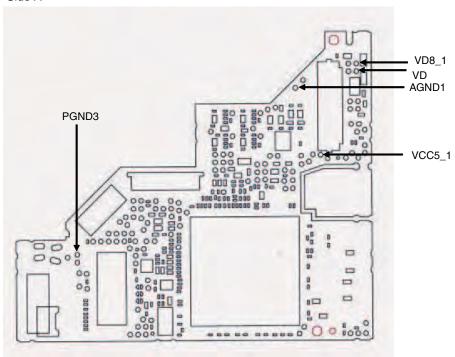


Fig 7.2: VD8, VCC5 voltage check points

AVH-P5950DVD/XN/RC

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## Check 8: Is AVCC5 voltage OK?



Fig 8.1: Power supply configuration

<Check> Playback DVD-REF-A1 TITLE 1 and check the voltage at the stylus. Check with PGND and GNDAU being the reference.

NO.	Check point	Module No.	Specification value	Unit
1	VD - PGND_3	ALL	$8.0 \pm 0.4$	V
2	AVCC5 - GNDAU1	ALL	$5.0 \pm 0.1$	V

#### Side A

В

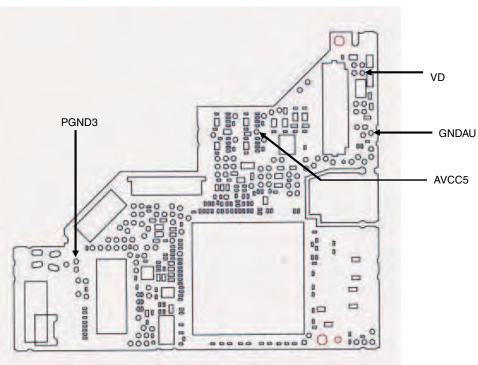


Fig 8.2: VD8, AVCC5 voltage check points

## Check 9: Is DACCLK normal?

< Outline> DACCLK for Audio-DAC is created by IC1501 using the 27 MHz master crystal oscillator (X1501).

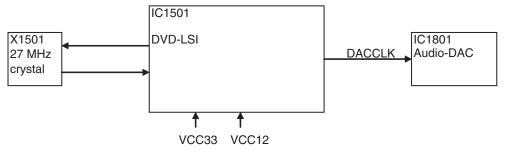


Fig 9.1: Clock configuration

<Check method>

Side A

DVD: DVD-REF-A1 TITLE 1 CD: Playback a normal CDDA.

Common to all DVD-V compatible modules.

Check with DGND being the reference.

In case of NG, check the applicable line, the periphery of IC1501, soldering of the peripheral components and defective components.

NO.	Check point 1 (stylus)	Media	Specification value 1	Specification value 2	Specification value 3
1	DACCK	DVD	2.0 V~VCC33 V	DGND~0.8 V	36.8640 MHz±300 ppm
2	DACCK	CD	2.0 V~VCC33 V	DGND~0.8 V	33.8688 MHz±300 ppm

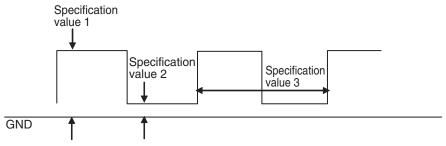


Fig 9.2: Clock specification value

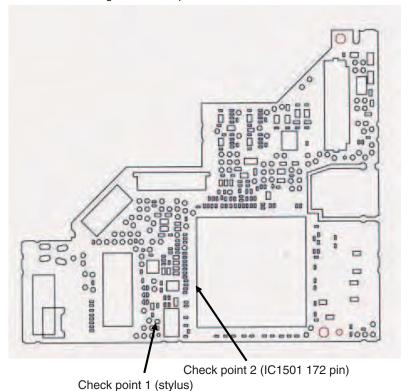


Fig 9.3: 27 MHz, DACCLK check point

6

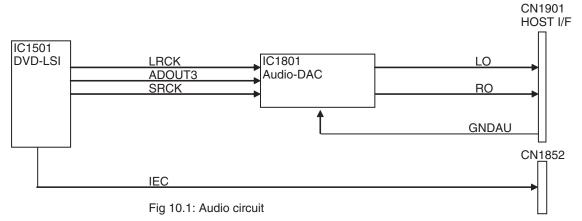
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### Check 10: Is the audio circuit OK?

<Outline> The serial 3 lines digital output + DACCLK, output from DVD-LSI (IC1501), are converted to analog audio signal at Audio-DAC (IC1801) and are output from the HOST I/F (CN1901).
Simultaneously, the analog MUTE signal is also output from DVD-LSI (IC1501) via the HOST I/F.
The digital audio signal (IECOUT), output from DVD-LSI (IC1501), is output via CN1852.



<Check method> Playback DVD-REF-A1 TITLE 2 CHAPTER 1 (48 k/16 bit 1 kHz 0 dB), and check with DGND being the reference.

In case of NG, check the applicable line, periphery of major components as described in the above drawing, soldering of the peripheral components and defective components.

NO.	Check point 1 (stylus)	Specification value 1	Specification value 2	Reference waveform
1	ADOUT3	VCC33 V-0.6 V or higher	0.4 V or lower	Waveform 1
2 SRCK		VCC33 V-0.6 V or higher	0.4 V or lower	Waveform 2
3	LRCK	VCC33 V-0.6 V or higher	0.4 V or lower	Waveform 3

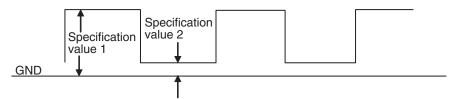


Fig 10.2: Serial 3 lines specification value

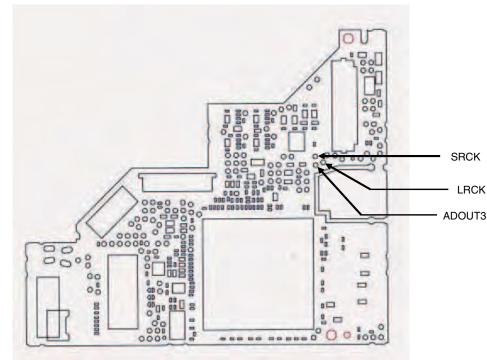
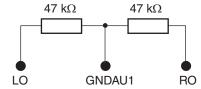


Fig 10.3: Serial 3 lines check points

С

Side A

The following checks shall be conducted using the following measurement circuits with GNDAU1 being the reference.



NO.	Check point 1 (stylus)	Specification value (rms)	Reference waveform	
4	LO	1 400 ± 150 mV	Waveform 4	
5	RO	1 400 ± 150 mV	Waveform 4	

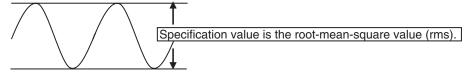


Fig 10.4: Analog audio out (LO, RO) specification value.

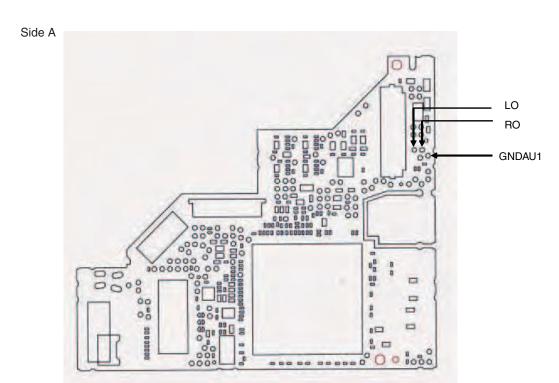


Fig 10.5: Analog audio out check point

В

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Check with DGND being the reference. Check 2pin cord after connecting it to a jig, etc.

NO.	Check point 1 (stylus)	Specification value 1	Specification value 2	Reference waveform
6	IEC	VCC33 V-0.6 V or higher	0.4 V or lower	Waveform 5

#### Side A

В

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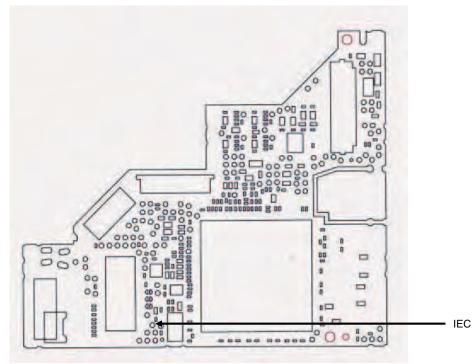
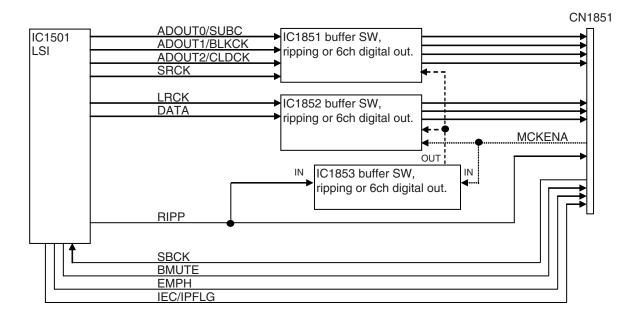


Fig 10.6: Digital audio signal (IECOUT) check point

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Furthermore, at the time of ripping, the serial 3 lines digital output + SUBC, output from DVD-LSI (IC1501), is output in 4 times speed via CN1851.



The signal at CN1851 for 6ch digital out/Ripping.

Pin No.	Pin name	6ch digital out	Ripping	
23	SRCK	SRCK	SRCK	
21	LRCK	LRCK	LRCK	
19	AD0/SUBC	ADOUT0	SUBC	
17	AD1/BLK	ADOUT1	BLKCK	
15	AD2/CLD	ADOUT2	CLDCK	
13	AD3/DATA	ADOUT3	DATA	
11	IEC/IPFLG	IEC	IPFLG	
9	-	-	-	
7	SBCK	-	SBCK	
5	BMUTE	BMUTE	-	
4	MCKENA	Low	High	
3	RIPP	High	Low	
2	EMPH	EMPH	EMPH	
Pins 1, 6, 8, 10, 12, 14, 16, 18, 20, 22 and 24 are GNDD.				

Fig 10.7: 6ch digital out/Ripping circuit

С

Playback DVD-REF-A1 TITLE22 CHAPTER 1, and check with GNDD being the reference. In case of NG, check the applicable line, the periphery of the major components in the drawing above, soldering of the peripheral components and defective components.

Check 24pin FFC after connecting it to a jig, etc.

NO.	Check point 1 (stylus)	Specification value 1	Specification value 2
7	SRCK	VCC33 V-0.6 V or higher	0.4 V or lower
8	LRCK	VCC33 V-0.6 V or higher	0.4 V or lower
9	ADOUT0	VCC33 V-0.6 V or higher	0.4 V or lower
10	ADOUT1	VCC33 V-0.6 V or higher	0.4 V or lower
11	ADOUT2	VCC33 V-0.6 V or higher	0.4 V or lower
12	IEC	VCC33 V-0.6 V or higher	0.4 V or lower
13	MCKENA	-	VCC33 V x 0.3 V or lower

Rip common CDDA, and check with GNDD being the reference. In case of NG, check the applicable line, the periphery of the major components in the drawing above, soldering of the peripheral components and defective components.

Check 24pin FFC after connecting it to a jig, etc.

NO. Check point 1 (stylus)		Specification value 1	Specification value 2		
14	SRCK	VCC33 V-0.6 V or higher	0.4 V or lower		
15	LRCK	VCC33 V-0.6 V or higher	0.4 V or lower		
16	SUBC	VCC33 V-0.6 V or higher	0.4 V or lower		
17	BLKCK	VCC33 V-0.6 V or higher	0.4 V or lower		
18	CLDCK	VCC33 V-0.6 V or higher 0.4 V or lower			
19	9 DATA         VCC33 V-0.6 V or higher         0.4 V or lower           0 SBCK         VCC33 V-0.6 V or higher         0.4 V or lower		0.4 V or lower		
20			0.4 V or lower		
21	RIPP	-	VCC33 V x 0.3 V or lower		

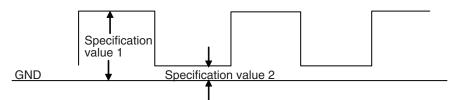
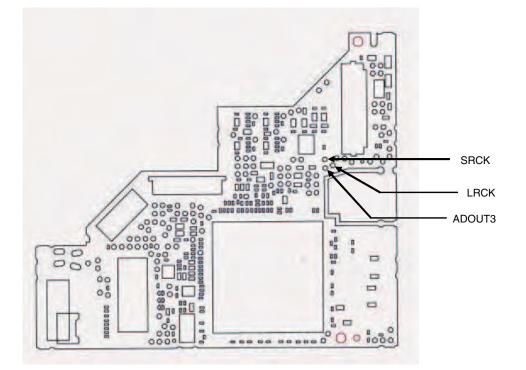


Fig 10.8: 6ch digital out/Ripping specification value

В



Side B

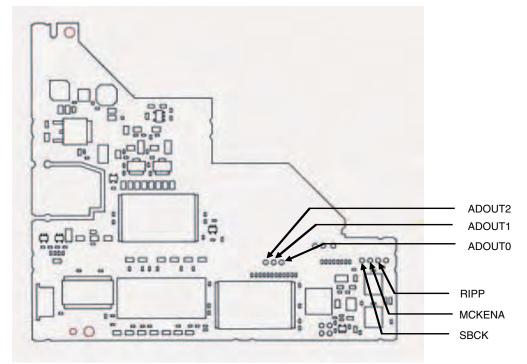


Fig 10.9: 6ch digital out/Ripping check point

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### Check 11: Is the video circuit OK?

<Outline> Composite signal and component signal are output from DVD-LSI (IC1501), and are output from the HOST I/F (CN1901) via a buffer circuit.

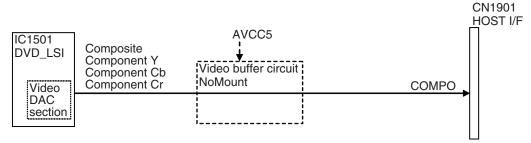


Fig 11.1: Video circuit

<Checking method> Playback DVD-REF-A1 TITLE2 CHAPTER5 (WHITE 100%), and monitor COMPO signal with an oscilloscope with GNDV1 (stylus) being the reference. Set the trigger mode to "TV trigger" and the trigger line to "150 line".

Check point 1 (stylus)

NO.			Specification value	Reference waveform		
	1	COMPO	1 000 mVpp ± 5 %	Waveform 6		

In case of NG, check the applicable line, the periphery of the major components in the drawing above, soldering of the peripheral components and defective components.

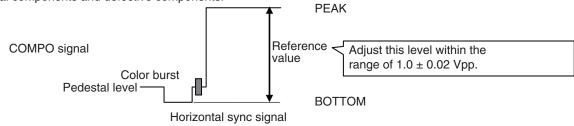


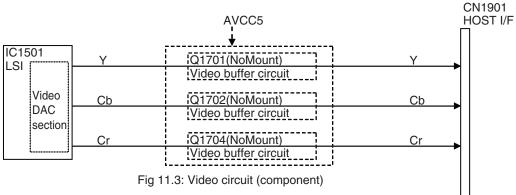
Fig 11.2: Waveform for the case of composite white 100% output

<Video level readjustment method>

In case the video composite output is outside of the specification value, readjust the level according to the method described below.(Note: Units are exchanged, the video output is not adjusted.)

Turn the volume (VR1671) to adjust the video level within the range of 1.0  $\pm$  0.02 Vpp.

The adjustment specification is  $1.0 \pm 0.02$  Vpp.



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<Checking method> Playback DVD-REF-A1 TITLE2 CHAPTER19 (100% Color Bars), and monitor Y, Cb, and Cr signal with an oscilloscope with GNDV1 (stylus) being the reference. Set the trigger mode to "TV trigger" and the trigger line to "150 line".

NO.	Check point 1 (stylus)	Specification value	Reference waveform
2	Υ	1 000 mVpp ± 5%	Waveform 7
3	Cb	700 mVpp ± 5%	Waveform 7
4	Cr	700 mVpp ± 5%	Waveform 7

In case of NG, check the applicable line, the periphery of the major components in the drawing above, soldering of the peripheral components and defective components.

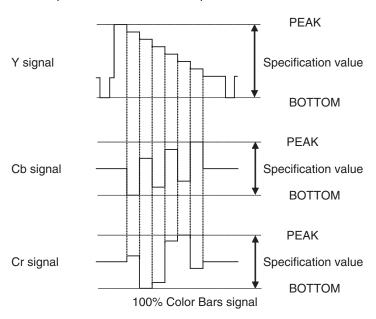


Fig 11.4 Waveform for the case of component 100% Color Bars output

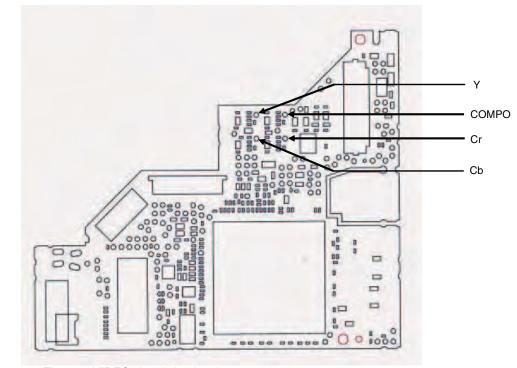


Fig 11.5: VIDEO signal check point

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Side A

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## Check 12:How to judge whether the flash memory has reached its life or not.

If the reaction to user operation is slow or operation is slow in general, there is a possibility that the flash memory has reached its life.

Make judgment regarding the flash memory life by looking at the display of the LD energizing time.

- 1.Let the LD energizing time displayed.
- (Refer to the FE test mode for the method of displaying the LD energizing time.)
- 2.If the second digit from the left of the energizing time display is showing E, such as "\*E\*\* \*\*\*\* ", it means that the flash memory has reached its life.

#### Example:



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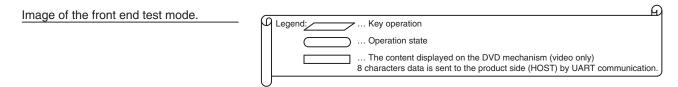
В

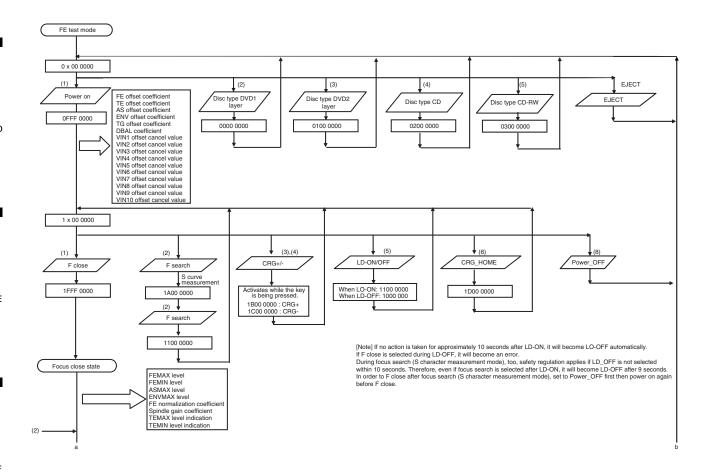
С

# 6. SERVICE MODE 6.1 DVD TEST MODE

Image of the test mode. () Legend: ... Key operation The following operations are done by remote control. Operation state The content displayed on the DVD mechanism (video only) Start of the test mode. 8 characters data is sent to the product side (HOST) by UART communication. TEST [Note] Higher level 4 characters only. Lower level 4 characters are spaces. (1) (2) (3) (4) EDC1 test selection EDC2 test selection LD power on time FE test selection mode selection Hereafter, to FE test Hereafter, to EDC1 Hereafter, to EDC2 Hereafter, to LD power on mode image test mode image. test mode image. time mode image.

[Note] In order to move on to another test after selecting a test (FE/EDC1/EDC2), it is necessary to restart the DVD mechanism in the test mode.





AVH-P5950DVD/XN/RC

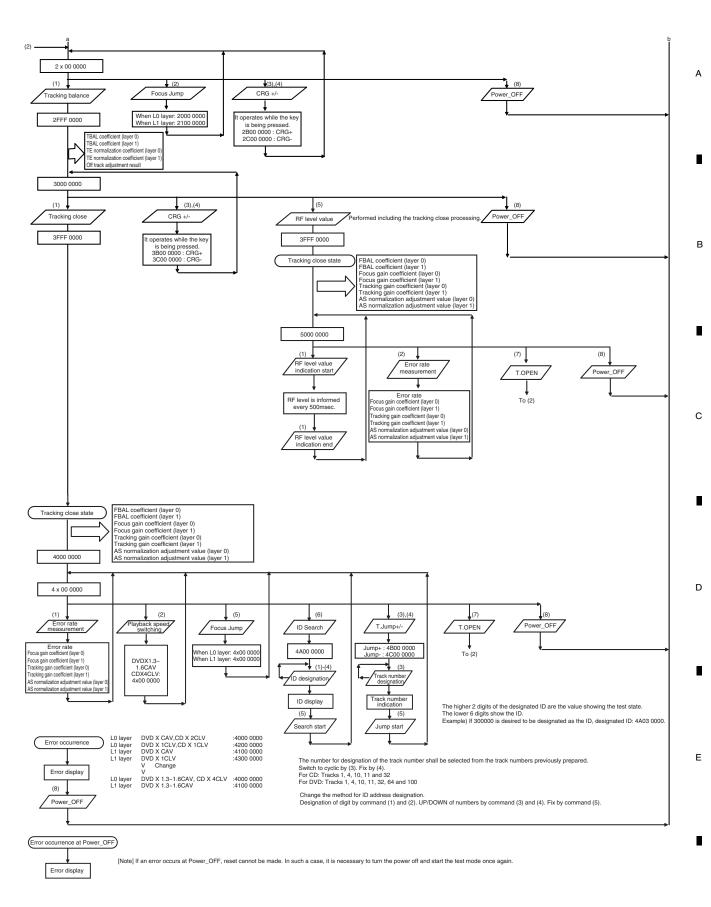
56

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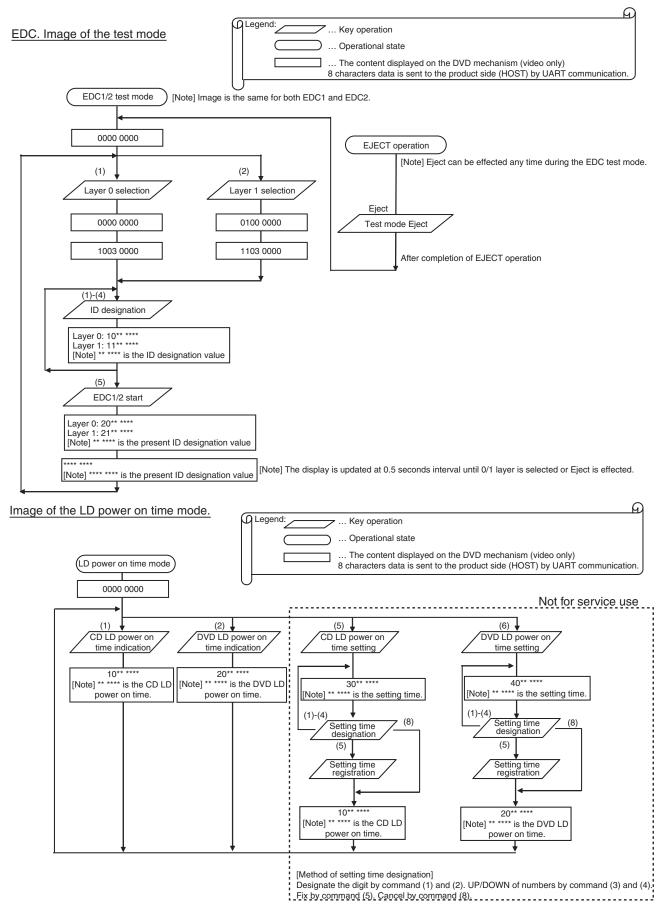
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**–** 6 **–** 7 **–** 8



AVH-P5950DVD/XN/RC

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[Note] If the power on time is 999999 hours or more, it is always reported as 999999 hours.
[Note] If the power on time is "\*E\*\* \*\*\*\*", the value may not be correct due to the life of the flash memory.

				Method of reset			
F	000 *4	UART	Manning	ACC	Source	Eject	Play Key
Error status	OSD *1  It is a disc unable to be played back.	*2	Meaning	Off/On	Off/On	.,	
Media Error	NON-PLAYABLE DISC	00h	A disc containing the unplayable Format only.	Х	X	X	-
Open	(No display)	10h	Door open error	*	*	*	*
Read Error	ERROR-02-99	20h	Transfer start error	Χ	Х	X	X
Focus Error(Focus Error in mechanism set up)	ERROR-02-90	21h	Focus error	Х	х	X	Х
Surface Error	ERROR-02-9E	22h	Focus error during set up (A focus has never been achieved with that disc.)	Х	х	Х	х
Address not found (Invalid Track)	ERROR-02-80	23h	Address not found.	Х	Х	Х	Х
Spindle Lock	ERROR-02-91	24h	Spindle lock NG (the disc cannot rotate)	Х	Х	Х	Х
Carriage HOME	ERROR-02-92	25h	Carriage home NG (The pick up tries to return to carriage home, but it cannot go back and stopped.)	Х	Х	Х	х
ID/SUBCODE Read Error	ERROR-02-94	26h	ID/SUBCODE Read Error (ID/SUBCODE cannot be read due to scratch or stain.)	Х	Х	Х	Х
AV CHIP decode Error	ERROR-02-9A	2Ah	AV CHIP decode NG (AV chip cannot be decoded.)	Х	х	Х	Х
AV CHIP Recovery NG	ERROR-02-9B	2Bh	AV CHIP recovery NG	Х	Х	Х	Х
Error of PLAY BACK Mode Status	ERROR-02-9C	2Ch	Playback state error (An error due to software bug.)	Х	Х	Х	Х
Disc Data Error	ERROR-02-9D	2Dh	Disc Data NG	Х	X	Х	Х
Temp Error	Temperature protection circuit is		High temperature				
(In Case of High Temperature)	being activated. THERMAL PROTECTION IN MOTION	30h	(Playback is stopped because the pick up temperature is 89 °C or higher.)	Х	-	-	-
No Disc (including Disc loading and ejecting)	(No display)	40h	Disc has not been inserted. (Including Load in process or Eject in process.)	*	*	*	*
Loading_Mecha Error	(No display)	50h	Loading mechanism error (The disc cannot be clamped.)	Х	-	Х	-
DRM Error	It is a protected disc. PROTECTED DISC	70h	DRM error (All music cannot be played back due to DRM.)	-	-	Х	-
Region code Error NG	Region code is incorrect. DIFFERENT REGION DISC	90h	Region code NG (Unable to be played back due to incorrect mechanism region.)	-	-	Х	-
CPPM*3 Key Error *4	It is a disc unable to be played back. NON-PLAYABLE DISC	91h	Key Error for playback	-	-	Х	-
CPRM Key Error *7	NON-PLAYABLE DISC	93h	Key Error for playback	-	-	Х	-
AWM*5 Error *4	(No display)	*6	Playback the illegally copied disc by DVD-A (Mute the sound on the mechanism side.)	Х	х	Х	-
REQUEST error	ERROR-02-A0	A0h	REQUEST error	Х	Х	Х	Х
Failure in issuing read command (chip dependent)	ERROR-02-A1	A1h	Failure in issuing the read command	Х	х	Х	Х
Adjustment of L0 is NG.	ERROR-02-A2	A2h	L0 adjustment is NG.	Х	Х	Х	Х
Adjustment of L1 is NG.	ERROR-02-A3	A3h	L1 adjustment is NG	X	X	X	X
LD system NG	ERROR-02-A4	A4h	LD system NG	X	X	Х	X
Gain adjustment system NG.		A5h	Gain adjustment system NG.	X	X	X	X
Gain determining system NG.	ERROR-02-A6	A6h	Gain determining system NG.	X	X	Х	X
Servo initial setting related items NG.		A7h	Servo initial setting related items NG.	X	X	X	X
Disc is not clamped yet.	ERROR-02-A8	A8h	Disc is not clamped yet.	X	X	X	X
Tracking system NG.	ERROR-02-A9	A9h	Tracking system NG	Χ	Х	Х	Х
Media setting system NG.	ERROR-02-AA	AAh	Media setting system NG	Х	Х	Х	Х
Focus Error	ERROR-02-AB	ABh	JUMP over layers NG	Х	Х	Х	Х
Error of PLAY BACK Mode Status	ERROR-02-B0	B0h	Navigation command error	Х	Х	Х	Х
Error of PLAY BACK Mode Status	ERROR-02-B1	B1h	Retry over	Х	Х	Х	Х
Undefined Error	ERROR-FF-FF	FFh	Undefined error	Х	Х	Х	Х

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X: Cancel the error by operation. -: Error is not cancelled by operation. \*: No setting

\*1 A content displayed on OSD. As for the items having multiple display patterns, the upper row is for the Japanese version Full GUI, and the lower row is for the Touch Panel model and Full GUI (English version).

\*2 A parameter of UART command, such as "receipt error notice", that the DVD mechanism transmits.

\*3 CPPM(Content Protection for Prerecorded Media): A copyright protection technique used in DVD-A. The protection is realized by using the keys recorded on the media and the device key held by the player.

on the media and the device key held by the player.

\*4 DVD-A compatible model only.

When an error has occurred, only the audio output will be muted but playback operation will continue. Furthermore, acceptance of the user operation will be

the same as usual.

\*5 AWM (Audio WaterMark): Electronic watermark. Information on the copyright owner or CCI (copy control information) are recorded so that illegally copied

<sup>\*6</sup> Notice as an error status will not be given
\*7 CPRM(Content Protection for Recordable Media): A copyright protection technique for digital contents used for re-writable DVD or memory card.

(DVD-VR model only)

## 7. DISASSEMBLY

Removing the Grille Assy and the Panel Unit (Fig.1)



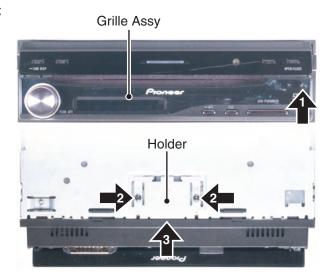
Remove the two screws and then remove the Holder.



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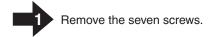
Remove the two screws and then remove the Panel Unit.



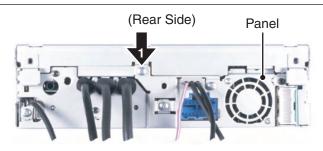
Panel Unit

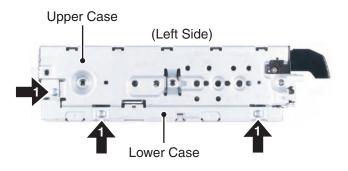
Fig.1

●How to Separate the Upper Case and the Lower Case (Fig. 2)



Open the Upper Case and the Lower Case in the direction indicated by arrows.





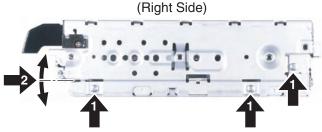


Fig.2

AVH-P5950DVD/XN/RC

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## Removing the DVD Mechanism Module (Fig.3)

Remove the four screws and then bring down the Bracket toward the Upper Case. See Fig.3 (2/2).

Remove the four screws and then bring down the DVD Mechanism Module toward the Upper Case. See Fig.3 (2/2).

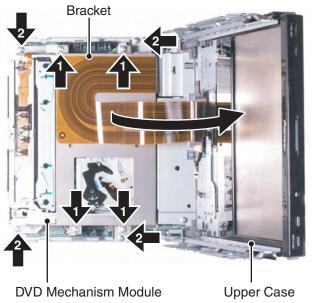


Fig.3 (1/2)

Disconnect the three connectors.

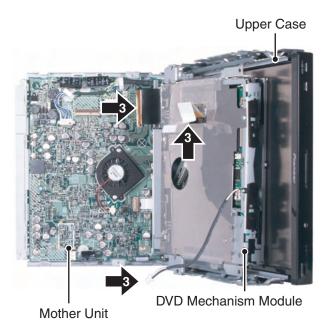


Fig.3 (2/2)

AVH-P5950DVD/XN/RC

## Removing the Holder and the Panel (Fig.4)

Remove the three screws.

Remove the three screws.

Remove the two screws and then remove the Panel.

Remove the screw.

Straighten the tabs at two locations indicated and then remove the Holder.

## [Caution]

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the Holder is removed in advance in

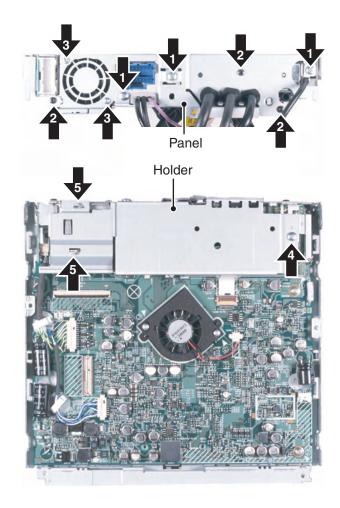


Fig.4

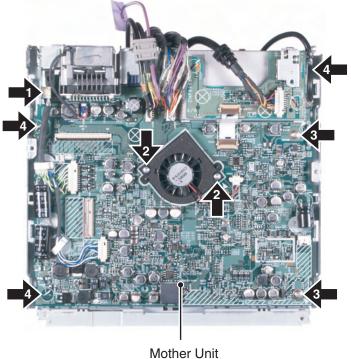
#### Removing the Mother Unit (Fig.5)

Disconnect the connector.

Remove the two screws.

Remove the two screws.

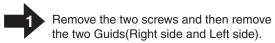
Straighten the tabs at three locations indicated and then remove the Mother Unit.



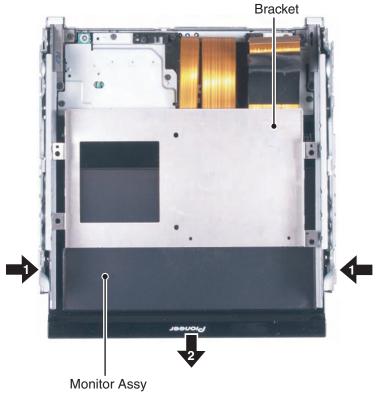
AVH-P5950DVD/XN/RC

Fig.5

## ● Removing the Monitor PCB 1/2 (Fig.6)







Remove the three screws and then remove the Cover.

4 Disconnect the connector.



Fig.6

AVH-P5950DVD/XN/RC

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## ■ Removing the Monitor PCB 2/2 (Fig.7)

Remove the two screws and then remove the Holder.

Remove the eight screws and then remove the Monitor Assy.

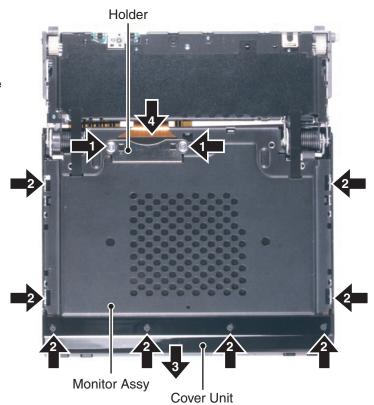
Remove the Cover Unit.

Disconnect the connector.

#### [Caution]

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The Monitor Assy cannot be removed unless the Cover Unit is removed in advance after removing the screws.



Disconnect the three connectors and then remove the Monitor PCB.

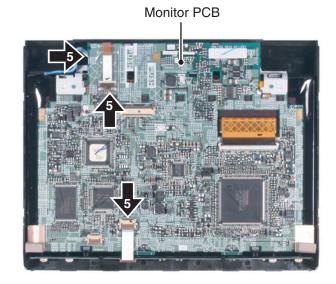


Fig.7

AVH-P5950DVD/XN/RC

#### How to hold the mechanism section (Fig 1)

- 1. Hold the main frame and the top frame.
- 2. As the mechanical strength of the front part of the top frame is not strong, do not hold this part.
- 3. Do not touch the switches provided on the top face of the mechanism section.
- 4. Be careful not to pull the flexible PCB on the side face.

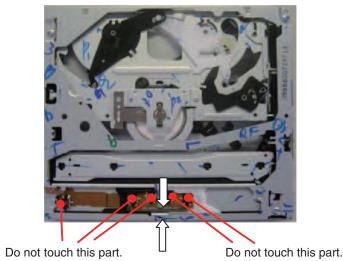


Fig 1

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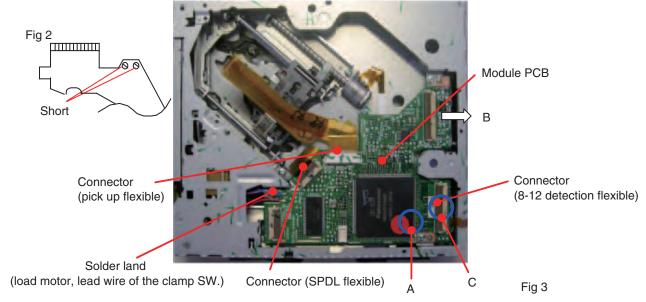
Do not touch this part.

#### How to remove the module PCB (Fig 2, Fig 3)

- 1. Put the mechanism section in locked state (disc load standby position).
- 2. Hold the mechanism module with its top face down.
- 3. Make the lands at 2 locations on the pick up flexible PCB short.
- 4. Disconnect the connectors of the pick up flexible PCB and the SPDL flexible PCB. (Be sure to disconnect the connectors as the flexible PCB will be damaged if the PCB is removed without removing the flexible PCB.)
- 5. Remove the solder joint of the lead wire of the load motor and the clamp SW.
- 6. Remove the two screws, and then remove the module PCB.

  (Lift up point A slightly and remove it toward B direction. Be careful as the point C is connected with a flexible PCB.)

7. Disconnect the connector of the 8-12 detection flexible PCB from the PCB.



AVH-P5950DVD/XN/RC

### ■ How to remove the CRG motor assy (Fig 4)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the Mylar tape.
- 3. Remove the flexible PCB of the CRG motor from the connector of the spindle motor.
- 4. Remove the two screws, and then remove the CRG motor assy.

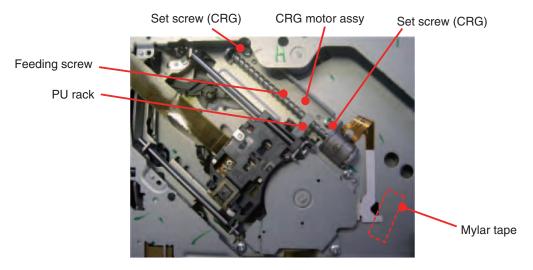


Fig 4

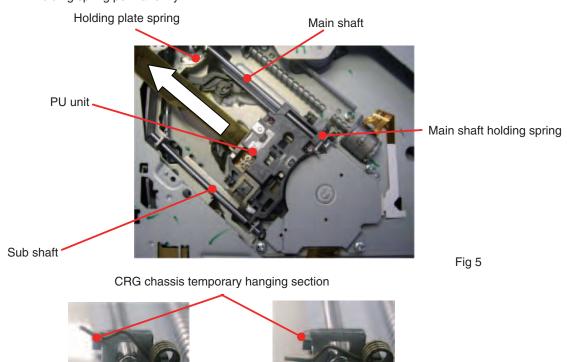
#### How to remove the PU unit (Fig 5)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Hang the main shaft holding spring to the CRG chassis temporary hanger.
- 3. Remove the CRG motor assy according to the instructions in "How to remove the CRG motor assy".
- 4. Remove the holding plate spring of the main shaft.

Temporary hanging

5. While lifting up the tip of the pick up rack, slide the main shaft, and remove the PU unit.

(Note) When mounting the PU unit again, make sure to do the adjustments of the devices mounted thereon according to the descriptions of the service manual. Furthermore, make sure to hang the main shaft holding spring permanently.



AVH-P5950DVD/XN/RC

С

# 8. EACH SETTING AND ADJUSTMENT 8.1 DVD ADJUSTMENT



#### 1) Precautions

This product uses  $5\,V$  and  $3.3\,V$  as standard voltages. The electrical potential that is the reference for signals, is not GND, but VREF (approximately  $2.2\,V$ ) and VHALF (approximately  $1.65\,V$ ).

During product adjustments, if the reference voltage is mistakenly taken as GND, and a grounding contact is made, not only would it be impossible to measure the accurate electrical potential, but also the servo motor would malfunction, resulting in the application of a strong impact on the pick up. The following precautionary measures should be strictly adhered to, in order to avoid such problems.

The reference voltage and GND should not be confused when using the minus probe of a measurement device. When an oscilloscope is being used special care should be taken to make sure that the reference voltage is not connected to the probe of ch1 (on the minus side), while the probe of ch2 (on the minus side), is connected to GND. Further, since the body frame of most measurement devices have the same electrical potential as the minus side of the probe, the body frame of the measurement device should be set to floating ground.

If the reference voltage is connected to GND by mistake, turn the regulator OFF immediately, or turn the power OFF.

- Remove the filters and wires used for measurements only after the regulator has been turned OFF.
- After the power supply is turned on, regulator ON the following adjustment and measurement are promptly done.
- Whenever the product is in the test mode, the software will not take any protective action. For this reason, special care should be taken to make sure that no mechanical or electrical shock could be applied to the product when taking measurements in the test mode.

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- Whenever the EJECT key is pressed to eject the disk, no other keys, other than the EJECT key, should be pressed until the disk eject action has been completed
- Press the EJECT key only after the disk has stopped completely.
- If the product hangs up turn the power OFF immediately.
- Laser didoes may be damaged, if the volume switch for the laser power adjustment of the pick up unit, is turned.

#### Attention)

- Test mode starting procedure Reset start while pressing the <u>ATT</u> and RIGHT keys together.
- Test mode stopping procedure Reset or ACC OFF-ON.

AVH-P5950DVD/XN/RC

#### SKEW adjustment

When one of the following replacements has taken place, SKEW adjustment for the pick up will be required.

- (1) Replacement of the pick up unit
- (2) Replacement of the spindle motor
- (3) Replacement of the carriage chassis
- (4) Replacement of the main shaft of the pick up unit (5) Replacement of the sub shaft of the pick up unit
- Measurement equipment and tools/jigs: Oscilloscope

Driver for SKEW adjustment → TORX driver (T2) (GGK1095)

Bond for fixing the SKEW (GEM1033)

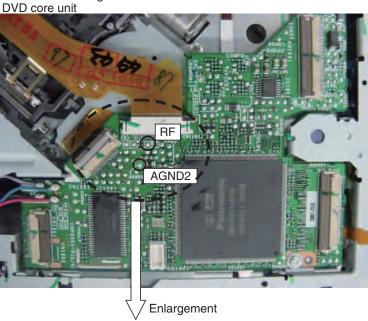
Bond for locking the screw (Locking agents(1401M: produced by THREE BOND))

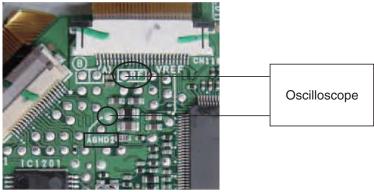
·Disc used: GGV1018

· Measurement reference: AGND2

· Measurement point: RF

· Connection drawing





Symptom in case the adjustment is not adequate: Worsening of the error rate 10-3

(Normally 10-4 or less.)
Large RF jitter
RF waveform distortion

Tracking drawing/Unstable servo

\* Caution: Do not look into the laser light during adjustment.

AVH-P5950DVD/XN/RC

There are two methods for adjustment, a method whereby the adjustment is made while monitoring the RF waveform using the oscilloscope (method ①) and a method whereby the adjustment is made while checking the RF level in value by OSD (method ②).

The adjustment procedure is shown below. Refer to the paragraph for the service test mode regarding entering of the test mode and the operation procedure.

#### Adjustment procedure:

- 1. Turn the DVD mechanism module upside down so that the pick up can be adjusted. When the module is turned upside down, there is a possibility that the disc is rubbed. So, first place a coin with the thickness of approximately 1.5mm on a desk, and set the module upside down in a way that section ① in the illustration below comes right above the coin.
- 2. Install the pick up. (Refer to the section regarding removal of the pick up from the mechanism unit.)

  As for the precautions in handling the pick up, refer to the precautions in handling the PU as described below.
- 3. Method 1:

Connect the oscilloscope by referring to the connection drawing so that the RF signal can be monitored with AGND2 as the reference.

Method 2:

There is no need for setting of any equipment. Proceed to step 4.

- 4. Turn the power ON, and load the disc for adjustment.(GGV1018)
- 5. After setting the disc type to DVD layer 1 in the front end test mode, turn the power ON, and move the pick up to the inner periphery. (CRG Home)
- 6. Turn the LD ON.
- 7. Set to focus close, and make auto adjustment for all items under that state, then set to tracking close. And make auto adjustment for all items under that state as well.
- 8. Make an intermediate periphery (ID: 100 000) search, and move the PU to intermediate periphery.
- 9. Method 1:

Proceed to step 10.

Method 2:

After setting to Tracking Open, make all auto adjustments, and set to Tracking Close this time with a command that can be RF displayed. Make auto adjustment for all items under that state as well.

10. Use TORX driver (T2) (GGK1095) for the following.

Method 1:

While monitoring the RF waveform on the oscilloscope, turn SKEW adjustment screw A just a little bit in a way that the level will reach the maximum.

While the pick up is at the intermediate periphery, turn SKEW adjustment screw B just a little bit in a way that the level will reach the maximum.

While the pick up is at the intermediate periphery, turn SKEW adjustment screw A just a little bit in a way that the level will reach the maximum.

(Make adjustment in the order of A -> B -> A, Please end the each adjustment by turning screw clockwise. ) Method ②:

While monitoring the RF level value on the OSD display, turn the SKEW adjustment screw A just a little bit in a way that the level will reach the maximum.

While the pick up is at the intermediate periphery, turn SKEW adjustment screw B just a little bit in a way that the level will reach the maximum.

While the pick up is at the intermediate periphery, turn SKEW adjustment screw A just a little bit in a way that the level will reach the maximum.

(Make adjustment in the order of A -> B -> A, Please end the each adjustment by turning screw clockwise.) If the error is not good, please perform Method ① again.

- 11. Turn the power OFF in the test mode, and after confirming that the disc has stopped, eject the disc.
- 12. Apply adhesive for fixing the SKEW and lock the screw. Refer to the illustration below for the adhesion points.

AVH-P5950DVD/XN/RC

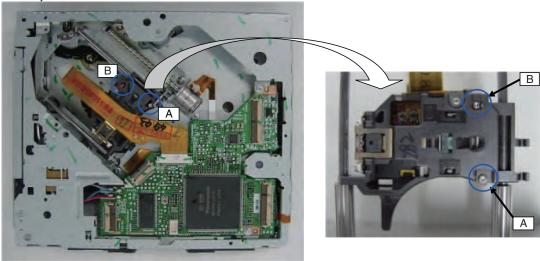
69

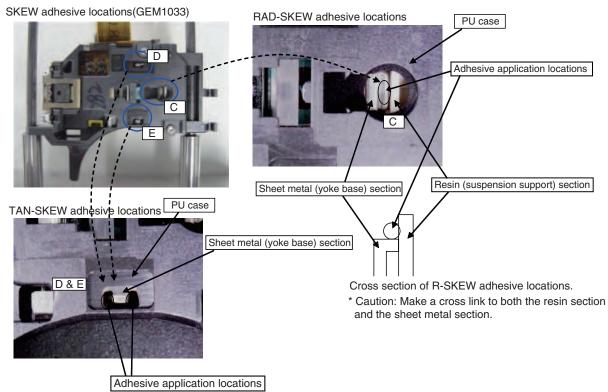
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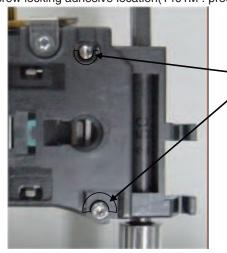
SKEW adjustment locations.





\* Caution: Make a cross link to both the case section and the sheet metal section.

3



Screw locking adhesive location

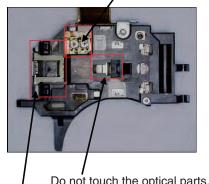
Apply the locking agent for more than half of the screw head circumference.

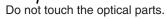
\* Caution: The locking agent shall not overflow to outside of the PU case.

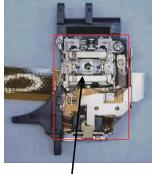
Precautions in handling the PU.

\* Caution: Do not touch the shaded section in the drawing below.

RF level adjustment section







Do not touch the springs.

Hologram (be careful for the static electricity) GRT adjustment section

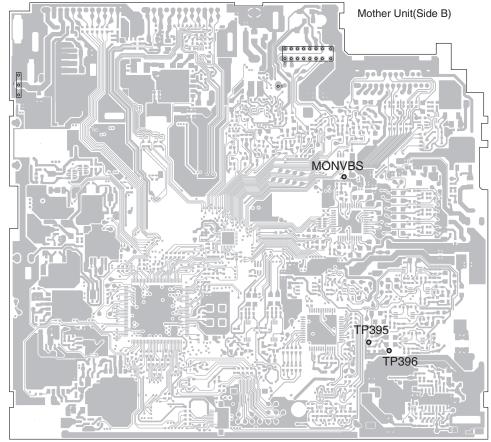
AVH-P5950DVD/XN/RC

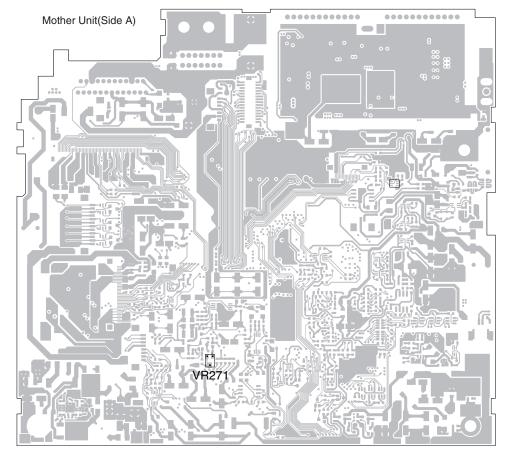
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# **8.2 VIDEO LEVEL ADJUSTMENT**

Adjustment point





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72

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Luminance is too high. Measure between the sync tip and 100 IRE  $1.35 \text{ V} \pm 0.05 \text{ Vp-p}$ poor adjustment. (top wave). Symptoms with Specs Under level: Over level: Measuring instruments Oscilloscope Tuning of image output: Measure level at the measuring point as shown below while DVD is being replayed. Measuring point: MONVBS Output signal (measuring point, waveform) (input test pin,specs, other conditions) 1.0 Vp-p, (input via 75 ohms) TP395····GND (VIDEO GND) Input signal Input test pin: TP396 ···· 100 IRE (white 100%), Mode ⋛ Main video level Mother PCB adjustment Step \_

5

5

Adjusting VR271 point Luminance is too low.

AVH-P5950DVD/XN/RC

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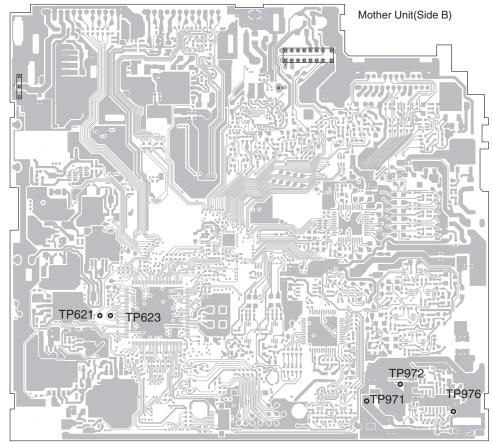
D

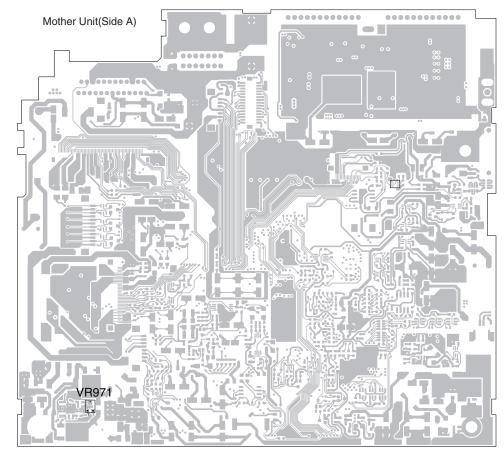
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## **8.3 MOTHER UNIT ADJUSTMENT**

Adjustment point





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1 =

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Adjusting point		VR841
Specs	18.874 368 MHz ± 754 Hz	370 kHz ± 5 kHz
Measuring instruments	Frequency Counter	Frequency Counter
Output signal (measuring point, waveform)	IC601 pin86(TP623)	ТР976
Mode (input test pin,specs, other conditions)	After the power supply is turned on, IC601 pin83(TP621) to 3.3 V	Connect 33 $\Omega$ (1.8 W or more) between TP 972 and GND. Connect 20 $\Omega$ (1.2 W or more) between TP 971 and GND.
Mode		
Mother PCB adjustment	Clock frequency Check	DC-DC converter frequency Adjustment
Step	-	2

Measure with the frequency counter at the measuring point as shown below while TUNER is turned ON.

5

6

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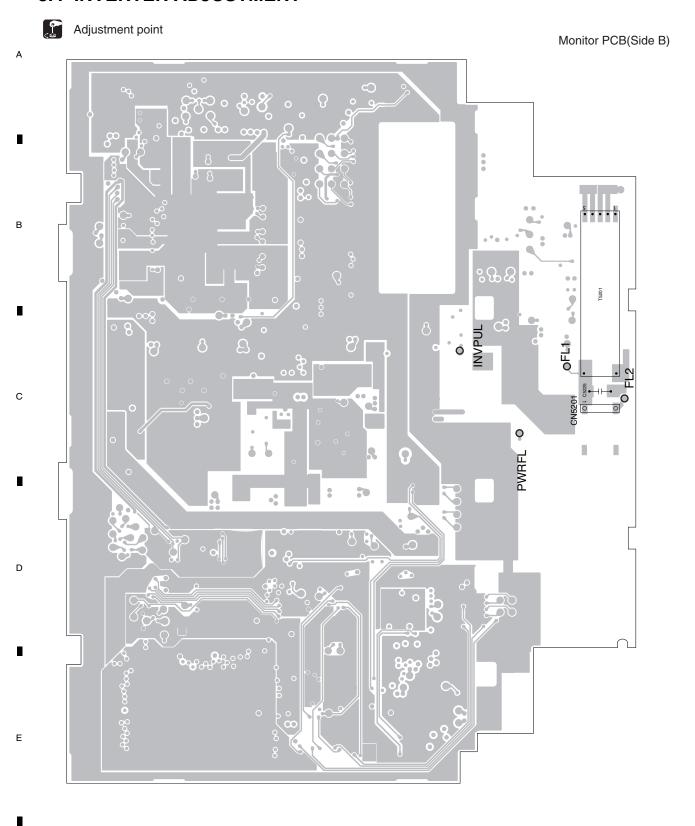
75

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## **8.4 INVERTER ADJUSTMENT**



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Verify that the frequency of waveform measured in No.1 is 51 kHz.

5

Monitor the waveform after voltage division or TP FL2. Do not monitor TP FL1 directly Connect 100 kΩ between TP FL1 and FL2.

5

Note

(measurement meter may be damaged

because of high voltage).

Verify that the frequency of waveform

measured in No.1 is 49 kHz.

Verify that the frequency of waveform measured in No.1 is 52 kHz.

52.0 ± 0.5 kHz

TP FL1 TP FL2

2 \

> 0

Input 104.0 ± 1 kHz waveform below to TP INVPUL.

Check frequency switching

4

 $10 \pm 2\%$ 

AVH-P5950DVD/XN/RC		
	7	

	Adjustment	48.0 ± 0.1 kHz	49.0 ± 0.5 kHz	51.0 ± 0.5 kHz
L1 and FL2.	Adjustment point	VR5201 48	- 64	
t 100k $\Omega$ between TP int as shown below.	Measurement point	TP FL1	TP FL2	TP FL1
Instead of inserting LCD connector into CN5201, connect $100k\Omega$ between TP FL1 and FL2. Measure with the frequency counter at the measuring point as shown below.	Input signal	14.4 ± 0.2 V to TP PWRFL TP DIMDTY: GND TP FLGND: GND TP INVPUL: GND	Input 98.0 ± 1 kHz waveform below to TP INVPUL.  10 ± 2%	Input 102.0 ± 1 kHz waveform below to TP INVPUL.  10 ± 2%  10 ± 2%  0 V
td of inserting LCD cure with the frequent	Adjustment item	Basic drive Frequency adjustment	Check frequency switching	Check frequency switching
Instea Measi	No.	-	a	ო

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**■** 6 **■** 7

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NOTE: When shutting off the power supply of TC90A96BFG-P, be careful not to energize each IC terminal. However, IIC lines (SDA and SCL) is not included in

5

Connect LCD panel for measurement. Connect LCD panel for measurement. Note Adjustment  $VCC8V = 8.0 \pm 0.5 V$  $-12V = -12.0 \pm 0.6 V$  $33V = 3.3 \pm 0.25 V$  $V15 = 1.5 \pm 0.08 \text{ V}$  $18V = 18.5 \pm 0.5 V$  $V25 = 2.5 \pm 0.15 \text{ V}$  $5V = 4.9 \pm 0.3 V$  $4.70 \pm 0.10 \text{ V}$  $4.20 \pm 0.30 \text{ V}$ Adjustment point Measurement point this case and it is possible to energize them with up to 5 V. TP:VCC8V TP:COM TP:33V TP:-12V TP:V25 TP:V15 TP:VD1 TP:18V **TP:5V** Input signal No definition. No definition. TP:PWRVI to 14.4 V TP:PWRVI to 14.4 V TP:PWRVI to 14.4 V TP:PWRVI to 14.4 V TP:PWRVI TP:PWRVI TP:PWRVI to 14.4 V to 14.4 V to 14.4 V Check 18.5 V power Check 2.5 V power supply voltage Check -12 V power Check 3.3 V power Check 1.5 V power supply voltage Adjustment item Check 8 V power Check 5 V power output amplitude Vcom amplifier supply voltage supply voltage supply voltage supply voltage supply voltage Tone voltage amplitude check Š. N က 4 2 6 9 \_ ω

No definition. CN5501 55pin - 1.75 ± 0.10 V (TP:VD3)

Tone voltage amplitude check V3

9

check V1

Connect LCD panel for measurement.

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AVH-P5950DVD/XN/RC

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2 3

adjustment mode, LOW output is mixed to the parts where there is a character.) (When OSD is displayed in EEPROM It connects with the LCD panel and it measures it. It connects with the LCD panel and it measures it. t connects with the LCD panel Note and it measures it.  $1.77 \pm 0.03 \text{ V}$ The amplitude of the 9-step and the 0-step is 1.77  $\pm~0.05~V_{\odot}$ Adjustment  $0.35 \pm 0.10 \text{ V}$  $3.30 \pm 0.20 \text{ V}$  $0.70 \pm 0.05 \text{ V}$  $0.60 \pm 0.10 \text{ V}$ Resistor setting of SA13h D5 - 0 Adjustment point Measurement point TP CCR,CCG,CCB DAC output TP:VD9 TP:VD5 TP:VD7 Screen Input white 100% T signal from IC5802 signal to TP MONVBS (1.35 Vpp ± 1%) Input composite Input Color-bar signal from IC5802 Input signal image 10-step No definitiont. No definition. No definition. Check RGB digital output Adjustment item Composite level adjustment Image check of RGB signal amplitude adjustment V5 amplitude adjustment V7 adjustment V9 Tone voltage Tone voltage Tone voltage amplitude Š. 4 16 13 Ξ 12 12

80 2

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AVH-P5950DVD/XN/RC

	5		-
Note	Execute to verify that IC5401 digital-out is not bridged or "OPEN" ed.	Input white 100% signal	Adjust the flicker level to minimum Black-white reverse signal can be the input to from all directions.  TP MONVBS (however, adjustment in RGB comes first).  Brightness level of reverse signal should be 50%. Adjustment point can be COM DC of flicker adjustment mode.
Adjustment	Make sure that tone changes smoothly, and there is no colored area in the entire display.	Leave for more than 30 minutes in Input white 100% signal operation mode.	Adjust the flicker level to minimum from all directions.
Adjustment point			TP COMDC DC output

Screen

Input black-white

Flicker adjustment

19

No definition.

Aging

8

reverse signal per 1 line from IC5802 SA\*\*h in this chart means the sub-address of TC90A96BFG-P.

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Measurement point

Input signal

Adjustment item

<u>8</u>

Image check

17

Screen

Input composite image lamp signal (monochrome) to TP MONVBS

## Memory item list and EEPROM

	ADDRESS	Bit15	Bit14	Bit13	Bit12	Bit11	Bit10	Bit9	Bit8	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0	
	00h			Outside light	of dimmer a	djustment o	coordinates	s (high)				Backlight of	dimmer adjı	ustment co	ordinates (hig	h)		
	01h		C	Outside light	of dimmer adj	ustment co	ordinates	(middle)			E	Backlight of d	immer adjus	stment coo	rdinates (mide	dle)		
RELATED	02h			Outside ligh	of dimmer a	djustment o	coordinate	s (low)		Backlight of dimmer adjustment coordinates (low)								
DIMMER	03h			Outsi	le light thresh	nold for dim	nmer (high)	)		Outside light threshold for dimmer (low)								
	04h			Ма	ximum value	of backligh	nt output			Minimum value of backlight output								
	05h								С	ecksum								
RELATED PIP (Dot adjustment system)	06h- 09h		Don't care						Don't care									
	0Ah		Common reverse output DC center value							Common reverse output amplitude adjustment value								
	0Bh	Don'	t care			Brigl	htness R											
	0Ch		t care				htness G											
	0Dh	Don'	t care				htness B					_						
	0Eh					Don't car									contrast			
	0Fh	Don'	t care			Main horiz		ıncer		-		_	cal enhance	_		- Don'	t care	
					Gain	Lim			fo		Gain	Rep	olicate		Coring			
	10h					Don't car								Sub Y c	ontrast			
	11h	Don'	t care			Sub horizo		ncer		+			cal enhance	_		Don't care		
		γ setting	I PGR	simultaneou	Gain	Lim	niter	out DC offs	fo		Gain on't care	Hep	olicate		Coring us $\gamma$ 1 inflection	n point		
	12h 13h	ON/OFF		us yslope B		RGB simul	•				simultaneous	Walana C			taneous $\gamma$ 3 ir		int	
RELATED PIP (Last memory	14h	TIGD SII		on't care		TIGD SIIIIG		put DC offs		Hab	simultaneous	y slope C		't care	tarieous / 5 ii	illection poi	THE STATE OF THE S	
value)	15h			on't care				put DC offs						't care				
	16h				SA24l	1 UPPER								LOWER				
	17h					1 UPPER				+	SA25h LOWER							
	18h				SA26h	JPPER TV				+	SA26h LOWER TV							
	19h				SA26h	1 UPPER				1	SA26h LOWER							
	1Ah				SA27h	UPPER TV					SA27h LOWER TV							
	1Bh				SA27h	n UPPER					SA27h LOWER							
	1Ch				SA46h	UPPER					SA46h LOWER							
	1Dh				SA47h	1 UPPER					SA47h LOWER							
	1Eh				SA48I	n UPPER					SA48h LOWER							
	1Fh				SA49I	n UPPER					SA49h LOWER							
	20h				SA4A	h UPPER							SA4Ah	LOWER				
	21h					h UPPER								LOWER				
	22h					h UPPER				1				LOWER				
	23h					n UPPER				_				LOWER				
	24h					h UPPER				+				LOWER				
	25h				SA4FI	1 UPPER			1				SA4Fh	LOWER				
	26h- 2Bh	Don't care Main SYNC IN Sampling gain down								Main	H-PLL3							
	2Ch,2Dh	Don't care Don't care																
	2Eh	Flicker adjustment result Don't care																
	2Fh								С	ecksum								
RELATED PIP (Dot adjustment system Factory shipment value)	30h- 33h				Do	on't care							Dor	n't care				

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	ADDRESS	Bit15	Bit14	Bit13	3 F	Bit12	Bit11	Bit10	Bit9	Bit8		Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	E	Bit0
	34h				То	uch pane	X coordin	ate 1							Touch pan	el Y coordina	ate 1			
	35h				То	uch pane	X coordin	ate 2				Touch panel Y coordinate 2								
	36h				Touch panel X coordinate 3							Touch pan	el Y coordina	ate 3						
	37h				То	uch pane	X coordin	ate 4							Touch pan	el Y coordina	ate 4			
	38h				То	uch pane	I X coordin	ate 5							Touch pan	el Y coordina	ate 5			
	39h		Touch panel X coordinate 6							Touch pan	el Y coordina	ate 6								
Touch	3Ah				То	uch pane	X coordin	ate 7							Touch pan	el Y coordina	ate 7			
correction value (Factory	3Bh				To	uch pane	I X coordin	ate 8							Touch pan	el Y coordina	ate 8			
shipment value)	3Ch		Touch panel X coordinate 9									Touch pan	el Y coordina	ate 9						
	3Dh				Тог	ıch panel	X coordina	ate 10							Touch pane	el Y coordina	te 10			
	3Eh				Тог	uch panel	X coordina	ate 11							Touch pane	el Y coordina	te 11			
	3Fh				Toı	uch panel	X coordina	ate 12							Touch pane	el Y coordina	te 12			
	40h				Toı	ıch panel	X coordina	ate 13							Touch pane	el Y coordina	te 13			
	41h				Toı	ıch panel	X coordina	ate 14							Touch pane	el Y coordina	te 14			
	42h				To	uch panel	X coordina	ate 15							Touch pane	el Y coordina	te 15			
	43h				To	uch panel	X coordina	ate 16							Touch pane	el Y coordina	te 16			
	44h					Doi	n't care							Touch	panel calibi	ation adjust	ment resul	t		
	45h										Chec	ksum								
Touch	46h				Ou	termost c	ircumferen	ce X min							Outermost	circumference	e Y min			
outermost circumference	47h		Outermost circumference X max									Outermost of	ircumferenc	e Y max						
correction value (Factory	48h							Touch panel outermost circumference adjustment result												
shipment value)	)				Cho	akaum		Todon pane	Toutennost	circumicron	zo dajastii	icht rese								
			0.	utormost	oiroum	oronoo V	min ocordi	noto voluo	for correct	ion	Crie	Outermost circumference Y min coordinate value for correction								
Touch	4Ah Outermost circumference X min coordinate value for correction					<u> </u>				min coordii	ate value	ioi corre	CHOIT							
outermost circumference	4Ch	Outermost circumference X Outermost circumference Y																		
correction value	40H							- 0	Jiermosi c	ircumieren			inate value	ior correcti	)f1					
	4Eh					>=D\T	h V				Crie	cksum			(UCED)T			L- 4		
	4Fh							coordinate				(USER)Touch panel Y coordinate 1								
	50h							coordinate				(USER)Touch panel Y coordinate 2								
	51h							coordinate								ouch panel \				
	52h	(OSET) TOUCH pariet a Coordinate 4																		
	53h																			
	54h							coordinate								ouch panel \ ouch panel \				
								coordinate												
	55h							coordinate								ouch panel				
Touch	56h				•			coordinate								ouch panel				
correction coordinates	57h					-		oordinate 1								uch panel Y				
(User calibration value)	58h				(US	ER)Toucl	n panel X c	oordinate 1	1						(USER)To	uch panel Y	coordinat	e 11		
	59h							oordinate 1								uch panel Y				
	5Ah						-	oordinate 1								uch panel Y				
	5Bh							oordinate 1								uch panel Y				
	5Ch							oordinate 1							(USER)To	uch panel Y	coordinat	e 15		
	5Dh				(US	ER)Toucl	n panel X c	oordinate 1	6							uch panel Y				
Territ	5Eh					Doi	n't care						(US	ER)Touch p	anel outerm	ost circumfe	rence adju	ustment	result	
Touch outermost	5Fh			(L	USER)C	Outermost	t circumfere	ence X min							(USER)Ou	termost circ	umference	Y min		
circumference value (User calibration	60h	(USER)Outermost circumference X max											(USER)Out	ermost circu	ımference	Y max				
value)	61h					Doi	n't care					(USER)Touch panel outermost circumference adjustment result								
AD correction	62h			То	ouch AE	correction	n value X	coordinates	,					Touch	AD correcti	on value Y	oordinate	5		
touch	63h			(USEF	R)Touch	AD corre	ection value	X coordin	ates					(USER)To	ouch AD cor	rection value	Y coordir	ates		
		<b>-</b>	(USER)Touch AD correction value X coordinates  EEPROM completion						(USER)Touch AD correction value Y coordinates  EJECT lock status value											

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#### 8.6 MONITOR TEST MODE

#### [Outline]

It is a mode used to adjust each preset value stored in the EEPROM for storing the preset values.

The adjusted values are stored in the EEPROM for storing the preset values.

#### [Method for Mode IN]

The method for Mode IN varies depending on the operational environment.

When operated as a unit

Reset the monitor micro computer while the [STEST1] terminal is set to Low and the [EPRTEST] terminal is set to Low.

When operated as a product

Reset the monitor micro computer while the [STEST1] terminal is set to High and the [EPRTEST] terminal is set to Low. Or, turn the power ON while pressing DISP key and FLIP DOWN key.

#### [Basic explanation on each menu]

 In the "setting content", adjustment range, initial value, and displayed character string of the items preset in each menu are described.

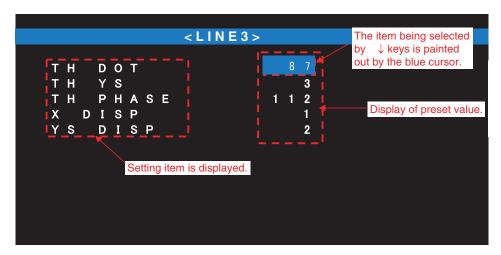
#### [Example) Setting content]

Setting	Adjustment renge	Initial value		
Content	Displayed character string	Adjustment range	IIIIIai value	
Dot search threshold	TH DOT	0-255	112	
YS search threshold	TH YS	0-4	3	
Phase search threshold	TH PHASE	0-255	112	
X disp	X DISP	0-63	32	
YS disp	YS DISP	0-4	2	

Character string displayed on the screen.

In the "display specifications", the screen actually displayed under each menu is explained.
 Display example is shown below for explanation.

#### [Example) Display specifications]



Cursor color

When accessing normally to EEPROM:

The cursor color will change blue  $\rightarrow$  red  $\rightarrow$  blue.

(The bule color continues for the convenience of the display cycle.But it is not an error.)

When accessing abnormally to EEPROM(error):

The cursor color will stay red (blue  $\rightarrow$  red  $\rightarrow$  red) even if the key is released.

Note) When a value is changed continuously, the cursor color may change blue  $\rightarrow$  red  $\rightarrow$  red  $\rightarrow$  ...  $\rightarrow$  blue. But it is not an error.

(The red color continues for the convenience of the display cycle.)

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## [Flicker adjustment menu]

### [Setting content]

Setting item	Adjustment range	Initial value		
Content	Displayed character string	Aujustinent range	IIIIIai vaiue	
Common inverted output center value	COM DC	0-255	92	

#### [Line adjustment 1 menu]

#### [Setting content]

Setting item							
Content	Displayed character string	Adjustment range	Initial value				
Bright	BRIGHT	0-255	150				
RGB simultaneous contrast(SA0C[D7-0])	CONTRAST	0-255	168				
Common inverted output amplitude adjusted value	COM AMP AJ	0-255	150				
R output DC offset(SA1A[D11-8])	ROUT BIAS	0-15	8				
G output DC offset(SA1C[D11-8])	GOUT BIAS	0-15	8				
B output DC offset(SA1E[D11-8])	BOUT BIAS	0-15	8				
Main Y contrast(SA0F[D5-0])	RGB CNTRST	0-63	34				
Sub Y contrast(SA13[D5-0])	CMP CNTRST	0-63	26				
Dither bit(SA0D[D15])	DITHER BIT	0-1	0(OFF)				

• The bright value is determined by the image quality setting table based on the user setting step and the common inverted output amplitude adjusted value (COM AMPAJ).

This bright value controls the output of [DACDI] of the monitor micro computer terminal.

Supplement 1) When the bright value is changed in the test mode, however, it will not be reflected in the user setting step value.

Supplement 2) In the test mode during monitor unit operation, the user setting step will not be reflected in the bright value calculation.

- Note 1... The "black density (=bright)" adjustment by the user is accomplished only by controlling the common inverted output amplitude, and the brightness of the double window IC is not used.
- Note 2... The content of bright and of RGB simultaneous contrast are reference values (adjustable though) only when adjusting other items, and are not stored in the EEPROM.
- Note 3... Be careful as the content of R(G/B) output DC offset, main Y contrast and sub Y contrast are different between the displayed values (EEPROM written values) and the register setting values in the double window IC.

(Because the relationship between the double window IC register value and the screen output value is not linear, there is a need for conversion by software.)

The cases where the displayed value (EEPROM written values) and the register setting values in the double window IC are different are summarized below.
[R(G/B) output DC offset]

Displayed value (=adjusted value) (DEC)	EEPROM written value (DEC)	Double window IC register value (BIN)	
15	15	0111	(MAX)
14	14	0110	
:	:	:	
9	9	0001	
8	8	0000	(TYP)
7	7	11111	
:	:	:	
1	1	1001	
0	0	1000	(MIN)

#### [Main Y contrast, sub Y contrast]

Displayed value (=adjusted value) (DEC)	E2PROM written value (DEC)	Double window IC register value (BIN)	
63	63	011111	(MAX)
62	62	011110	
:	:	:	
33	33	000001	
32	32	000000	(TYP)
31	31	111111	
:	:	:	
1	1	100001	
0	0	100000	(MIN)

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# [Line adjustment 2 menu] [Setting content]

Setting item							
Content	Displayed character string	Adjustment range	Initial value				
RGB & YS horizontal positioning(SA2B[D15-8])	DOT H POSIT	0-255	63				
YS sampling phase 1(SA2D[D15-12])	YS SAMPL	0-15	12				
AD sampling phase B(SA2D[D11-8])	B SAMPL	0-15	12				
AD sampling phase G(SA2D[D7-4])	G SAMPL	0-15	12				
AD sampling phase R(SA2D[D3-0])	R SAMPL	0-15	12				
YS internal delay adjustment(SA2F[D3-0])	YS DELAY	0-15	12				

Note 1... Be careful as the displayed value (EEPROM written value) and the register setting values in the double window IC are different for the following items.

(Because the relationship between the double window IC register value and the screen output value is not linear, there is a need for conversion by software.)

- YS sampling phase 1
- AD sampling phase B
- AD sampling phase G
- AD sampling phase R
- YS internal delay adjustment

The cases where the displayed value (EEPROM written values) and the register setting values in the double window IC are different are summarized below.

[YS sampling phase 1, AD sampling phase B/G/R, YS internal delay adjustment]

Displayed value (=adjusted value) (DEC)	E2PROM written value (DEC)	Double window IC register value (BIN)	
15	15	0111	(MAX)
14	14	0110	
:	:	:	
9	9	0001	
8	8	0000	(TYP)
7	7	1111	
:	:	:	
1	1	1001	
0	0	1000	(MIN)

#### [Line adjustment 3 menu]

#### [Setting content]

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Setting item		Adjustment range	Initial value	
Content	Displayed character string	Adjustment range	IIIIIai value	
Dot search threshold	TH DOT	0-255	87	
YS search threshold	TH YS	0-4	3	
Phase search threshold	TH PHASE	0-255	112	
X disp	X DISP	0-63	1	
YS disp	YS DISP	0-4	2	

#### [Line adjustment 4 menu]

#### [Setting content]

Setting item		Adjustment range	Initial value
Content	Displayed character string	Aujustinent range	IIIIIai vaiue
Main horizontal enhancer gain(SA10[D13-12])	M H GAIN	0-3	0
Main horizontal enhancer limiter(SA10[D11-10])	M H LIMIT	0-3	0
Main horizontal enhancer f0(SA10[D8])	M H F0	0-1	0
Main vertical enhancer gain(SA10[D7-6])	M V GAIN	0-3	0
Main vertical enhancer return(SA10[D5-4])	M V ORI	0-3	0
Main vertical enhancer corering(SA10[D3-2])	M V CORE	0-3	0

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### [Setting content]

[Line adjustment 5 menu]

Setting item		Adjustment range	Initial value
Content	Displayed character string	Aujustinent range	IIIIIai vaiue
Sub horizontal enhancer gain(SA10[D13-12])	S H GAIN	0-3	0
Sub horizontal enhancer limiter(SA10[D11-10])	S H LIMIT	0-3	1
Sub horizontal enhancer f0(SA10[D8])	S H F0	0-1	1
Sub vertical enhancer gain(SA10[D7-6])	S V GAIN	0-3	0
Sub vertical enhancer return(SA10[D5-4])	S V ORI	0-3	1
Sub vertical enhancer corering(SA10[D3-2])	S V CORE	0-3	2

#### [Line adjustment 6 menu]

#### [Setting content]

Setting item		Adjustment range	Initial value
Content	Displayed character string	Aujustinent range	IIIIIai vaiue
Brightness R(SA0C[D13-8])	BRIGHT R	0-63	16
Brightness G(SA0D[D13-8])	BRIGHT G	0-63	16
Brightness B(SA0E[D13-8])	BRIGHT B	0-63	16
γ correction ON/OFF(SA1A[D15])	GAMMA		OFF
RGB simultaneous ? 1 inflection point(SA1A[D5-0])	GAMMA 1	0-63	0
RGB simultaneous ? 2 inflection point(SA1B[D12-8])	GAMMA 2	0-31	4
RGB simultaneous ? 3 inflection point(SA1B[D4-0])	GAMMA 3	0-31	1
RGB simultaneous? inclination A(SA1A[D14-12])	GAMMASLP A	0-7	4
RGB simultaneous ? inclination B(SA1B[D15-13])	GAMMASLP B	0-7	1
RGB simultaneous? inclination C(SA1B[D7-5])	GAMMASLP C	0-7	1

Note 1... Be careful as the displayed value (EEPROM written value) and the register setting values in the double window IC are different for the following items.

(Because the relationship between the double window IC register value and the screen output value is not linear, there is a need for conversion by software.)

- Brightness R
- · Brightness G
- · Brightness B

The cases where the displayed value (EEPROM written values) and the register setting values in the double window IC are different are summarized below. [Brightness R/G/B]

Displayed value (=adjusted value) (DEC)	E2PROM written value (DEC)	Double window IC register value (BIN)	
63	63	011111	(MAX)
62	62	011110	
:		:	
33	33	000001	
32	32	000000	(TYP)
31	31	111111	
:		:	
1	1	100001	
0	0	100000	(MIN)

## [Line adjustment 7 menu]

#### [Setting content]

Setting item		Adjustment renge	Initial value
Content	Displayed character string	Adjustment range	Illiliai value
Main PLL0(SA24[D15-8])	MAIN PLL0	0-255	158
Main PLL1(SA24[D7-0])	MAIN PLL1	0-255	13
Main PLL2(SA25[D15-8])	MAIN PLL2	0-255	204
Main PLL3(SA25[D7-0])	MAIN PLL3	0-255	4

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## [Line adjustment 8 menu]

## [Setting content]

Setting item		Adjustment range	Initial value
Content	Displayed character string	Aujustinent range	IIIIIai value
During TV, sub PLL0(SA26[D15-8])	SUB PLL0 TV	0-255	140
During TV, sub PLL1(SA26[D7-0])	SUB PLL1 TV	0-255	136
Other, sub PLL0(SA27[D15-8])	SUB PLL0	0-255	140
Other, sub PLL1(SA27[D7-0])	SUB PLL1	0-255	141
During TV, sub PLL2(SA28[D15-8])	SUB PLL2 TV	0-255	100
During TV, sub PLL3(SA28[D7-0])	SUB PLL3 TV	0-255	68
Other, sub PLL2(SA29[D15-8])	SUB PLL2	0-255	152
Other, sub PLL3(SA29[D7-0])	SUB PLL3	0-255	107

# [Line adjustment 9 menu] [Setting content]

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Setting item		Adjustment range	Initial value
Content	Displayed character string	Aujustinent range	IIIIIai vaiue
SA46[D15-8]	SA46H UPPER	0-255	2
SA46[D7-0]	SA46H LOWER	0-255	0
SA47[D15-8]	SA47H UPPER	0-255	0
SA47[D7-0]	SA47H LOWER	0-255	0
SA48[D15-8]	SA48H UPPER	0-255	0
SA48[D7-0]	SA48H LOWER	0-255	0
SA49[D15-8]	SA49H UPPER	0-255	0
SA49[D7-0]	SA49H LOWER	0-255	0
SA4A[D15-8]	SA4AH UPPER	0-255	0
SA4A[D7-0]	SA4AH LOWER	0-255	0

# [Line adjustment 10 menu] [Setting content]

Setting item		Adjustment range	Initial value
Content	Displayed character string	Aujustinent range	Illiliai value
SA4B[D15-8]	SA4BH UPPER	0-255	0
SA4B[D7-0]	SA4BH LOWER	0-255	0
SA4C[D15-8]	SA4CH UPPER	0-255	0
SA4C[D7-0]	SA4CH LOWER	0-255	0
SA4D[D15-8]	SA4DH UPPER	0-255	0
SA4D[D7-0]	SA4DH LOWER	0-255	0
SA4E[D15-8]	SA4EH UPPER	0-255	0
SA4E[D7-0]	SA4EH LOWER	0-255	0
SA4F[D15-8]	SA4FH UPPER	0-255	0
SA4F[D7-0]	SA4FH LOWER	0-255	0

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### [Dimmer parameter setting menu]

#### [Setting content]

Setting item		Adjustment range	Initial value
Content	Displayed character string	Aujustinent lange	IIIIIai value
Backlight output max value	BL MAX	0x00-0xFF	C4
Backlight output min value	BL MIN	0x00-0xFE	59
Dimmer threshold value (high)	REF H	0x01-0xFE	C0
Dimmer threshold value (low)	REF L	0x00-0xFD	60
External light point (high)	LUM H	0x02-0xFF	E2
External light point (medium)	LUM M	0x01-0xFE	87
External light point (low)	LUM L	0x00-0xFD	52
Backlight point (high)	BL H	0x00-0xFF	C4
Backlight point (medium)	BL M	0x00-0xFF	C4
Backlight point (low)	BL L	0x00-0xFF	68

• The data of the points (coordinates) for the dimmer is stored in the EEPROM but not used for CS calculation as it is changed by the user operation.

#### Note 1... The adjustment range of each item listed above is the range applicable when the following relationships are satisfied.

The value which destroys the relationship below cannot be set even if it is within the adjustment range.

- Regarding the backlight output minimum value, there is a relationship where; "backlight output minimum value < backlight output maximum value"
  - and "backlight output minimum value ≤ backlight point (low)"
- "External light point (low) ≤ dimmer threshold value (low) < external light point (medium) ≤ dimmer threshold value (high) < external light point (high)"</li>
   "Backlight point (low) ≤ backlight point (medium) ≤ backlight point (high) ≤
- ≤ backlight output maximum value"

#### [Operational specifications]

Operational description	Main unit key	Remote controller key
Main page select -	PGM(TA)	BAND/ESC
Main page select +	DISP	BACK
Selection cursor upward movement	_	<b>↑</b>
Selection cursor downward movement	_	$\downarrow$
Item content adjustment	_	<b>←</b>
Item content adjustment	_	$\rightarrow$

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#### 8.7 CALIBRATION TEST

#### [Mode IN method]

After pressing [PGM+OPEN/CLOSE], press RESET and START. Then the screen will change to [touch panel adjustment mode].

#### [Menu types for mode]

Calibration test mode consists of the following menu.

(By clicking each menu, you can read the explanation for each menu.)

#### TOP menu

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- Outermost circumference Inspection
- 16 points adjustment
- Coordinate inspection
- Calibration verification
- Data initialization

#### 0. Explanation of the TOP menu

#### [Operational specifications]

Operational description	Remote controller key
Menu determination	MENU_ENTER
Selection cursor up movement	<b>↑</b>
Selection cursor down movement	<b>+</b>

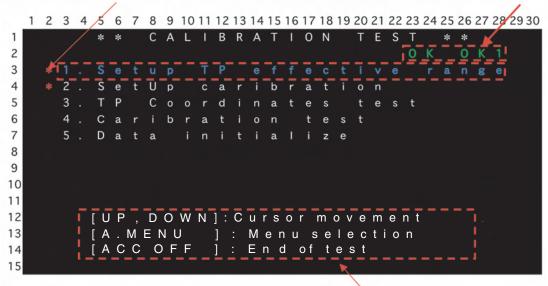
Select the menu desired to be adjusted using the up/down key ( $\uparrow$   $\downarrow$ ), then press ENTER key to enter into the selected menu.

Note 1) Calibration menu can be selected only when adjustment of the outermost circumference has been completed normally.

#### [Display specifications]

Adjustment completed mark

Flicker initialized state



Operational specifications are displayed

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Conditions for lighting of the adjustment complete mark "\* ".

Outermost circumference inspection:

In case the outermost circumference inspection has been completed normally.

16 points adjustment:

In case the calibration has been completed normally.

Conditions for the adjustment complete mark "\* " to go out

Outermost circumference inspection:

In case the outermost circumference inspection has never been performed.

In case the EEPROM initialization has been performed.

In case the adjustment value has been initialized.

16 points adjustment:

In case the 16 points adjustment has never been performed.

In case the EEPROM initialization has been performed.

In case the adjustment value has been initialized.

#### 1. Set up TP effective range

#### [Outline]

Outermost circumference value of X and Y is obtained by tracing the outermost circumference of the touch panel screen.

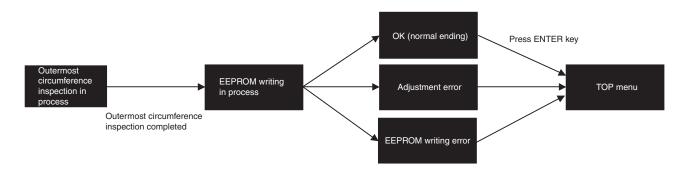
When exiting the menu screen by pressing ENTER key, the captured value is stored in the EEPROM. Furthermore, when storing the value, checking is made as to whether the value is within the range or not. If the value is within the range, OK is displayed, and X/Y upper and lower limit value and normal ending information, total of 5 byte data, are written in the EEPROM. (In or out of the range check is conducted according to the [Table of allowable range of setting value] shown below.)

In the following cases, however, NG will be displayed without storing the EEPROM captured value.

When the set value is outside of the range. (When the value exceeded the [Table of allowable range of setting value] below.)

However, "adjustment NG information" (1 byte) is written into the EEPROM. When writing into the EEPROM failed.

The transition of the state for the above described outermost circumference inspection is outlined below.



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Refer to the "Memory item list and EEPROM" for the stored area of the setting value in the EEPROM. Initial value and setting value allowable range are as shown below.

#### [Table of BEFORE initial value]

Coordinate	Minimum value	Maximum value
Х	43	247
Υ	50	238

#### [Table of AFTER initial value]

Coordinate	Minimum value	Maximum value
Х	90	180
Υ	90	180

#### [Table of setting value allowable range]

Coordinate	Minimum value	Maximum value
X	0~72	205~255
Υ	0~80	205~255

#### [Display specifications]

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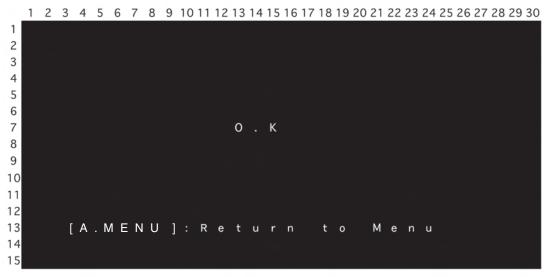
#### Outermost circumference inspection in process

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
                           effective
                                                 range**
2
3
4
                       BEFORE
                                      Α
5
                                      9 9
                                    9
                                               9
                                                 9
                                                   9)
               Xmin
6
                                    9
                                      9
                                        9 .
                                               9
                                                 9 9
               Y m
7
                                               9
               X m
                   а
                                    9
                                      9
                                        9
                                                 9
8
                                    9
                                      9
                                        9 .
                                               9
                                                 9
                                                   9
9
               Xcor
                                    9 9 9 .
                                               9
                                                9 9
10
                             t
                                    9
                                      9
11
12
        Please
                         o u c h
                                    а
      [A.MENU]: Check
13
                                    h e
14
15
```

X/Y information of [MIN] and [MAX] of the outermost circumference are displayed. [BEFOR] indicates the value stored in the EEPROM.

[AFTER] indicates MIN/MAX of the A/D value currently captured.

#### When ended normally.



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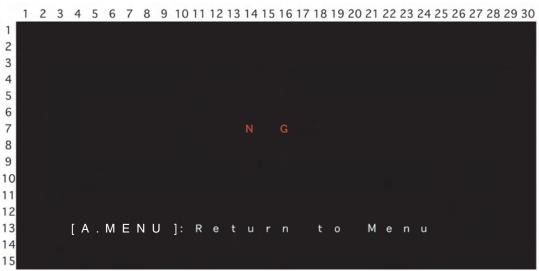
The data written are as follows.

Upper limit value and lower limit value of X.

Upper limit value and lower limit value of Y.

Adjustment OK information.

When the captured value is outside of the allowable range.



The data written is as follows. Adjustment NG information.

[Key operation specifications]

Operational description	Remote controller key
To TOP menu	MENU_ENTER

#### 2. Set up calibration

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#### [Outline]

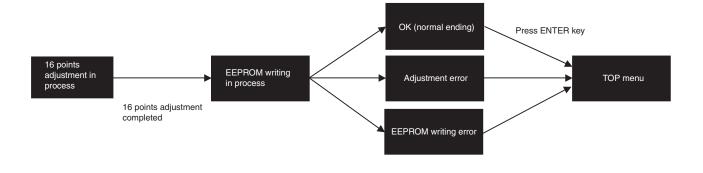
Touch the cursor [+] displayed on the screen. When correctly touched, the cursor will disappear, and the next cursor will appear. Calibration is conducted by repeating this process 16 times. When the 17th point has been finally touched, setting information for the 16 points and the normal ending information, total of 17 byte data, are written into the EEPROM, and the screen returns to the TOP menu.

In the following cases, however, NG will be displayed without storing the EEPROM captured value.

When the menu is exited before touching the 17th point.

However, 'adjustment NG information' (1 byte) is written into the EEPROM. When writing into the EEPROM failed.

The transition of the state for the above described 16 points adjustment is outlined below.



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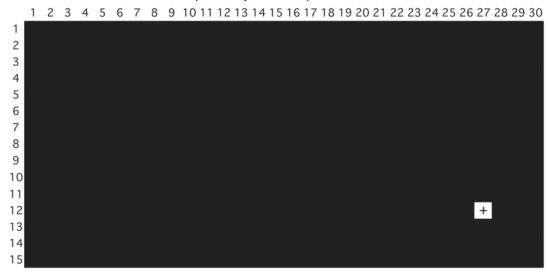
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Refer to the material titled [Memory item list and EEPROM] for the stored area of the setting value in the EEPROM.

#### [Display specifications]





#### When ended normally.



The data written are as follows.

X coordinate (16 points)

Y coordinate (16 points)

#### [Key operation specifications]

free harmon ale	
Operational description	Remote controller key
To TOP menu	MENU ENTER

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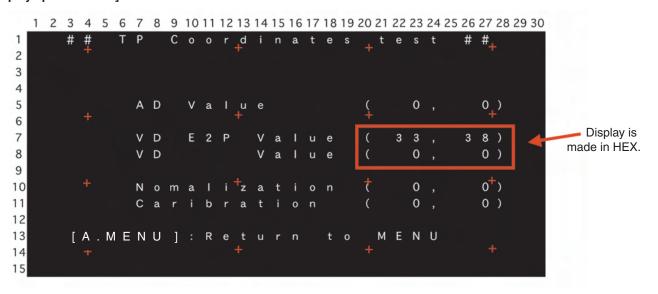
#### 3. TP coordinates test

#### [Outline]

Coordinate before and after the correction when the touch panel is touched is displayed, and the operation is verified. Furthermore, the cursor can be moved by using the up/down/left/right keys, and the coordinate of the cursor center is displayed.

The cursor is displayed in red at the positions where the cursor was displayed during 16 points adjustment.

#### [Display specifications]



AD: AD data value (X direction, Y direction), representing the coordinate of the point pressed, is displayed.

VD E2P: VD value (the value registered at the time of circumference setting) preset in the EEPROM. VD: VD value currently being pressed.

NORMAL: The coordinate (X direction, Y direction), which is the result of normalizing the AD data value currently being pressed within the effective range, is displayed.

CALIBRATION: The coordinate (X direction, Y direction), which is the result of applying the correction by calibration to the normalized coordinate, is displayed.

#### [Key operation specifications]

Operational description	Remote controller key
To TOP menu	MENU_ENTER
Cursor upward movement	<b>↑</b>
Cursor downward movement	+
Cursor leftward movement	<b>←</b>
Cursor rightward movement	<b>→</b>

AVH-P5950DVD/XN/RC

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#### [Calibration verification]

#### [Outline]

■ Touch the center of the "+" cursor displayed on the screen. When touched correctly, the cursor will disappear, and the next cursor will be displayed.

By repeating this 16 times, corrected value for each "+" point is obtained.

The information are written into the EEPROM as a data of 16 times. The screen will return to the top menu.

#### [Display specifications]



<sup>&</sup>quot;+" changes into red when coordinates to touch are outside the range.

#### ■ When terminated normally. (After pressing the 16th point.)



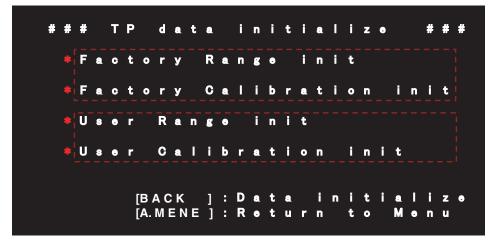
#### [Key operation specifications]

Operational description	Remote controller key	
To top menu	MENU_ENTER	

■ Result of outermost circumference inspection and of calibration inspection (corrected value) are returned to their initial values.

As for the initialized items, the initial values are written into the EEPROM and the adjustment information is cleared.

#### [Display specifications]



■ Conditions for the adjustment completion mark (\*) to be lighted up.

(The mark will be lighted up if one of the multiple conditions is met.)

☐ Outermost circumference inspection

When the outermost circumference inspection of the calibration for line has been completed normally.

☐ 16 point adjustment

When the calibration inspection for line has been completed normally.

☐ User outermost circumference inspection

When the outermost circumference inspection of calibration for line has been completed normally.

(Because the writing is made to both the Factory region and the User region, the user side will also be treated as adjusted.)

When the outermost circumference inspection of the user calibration has been completed normally.

☐ User 16 point adjustment

When the calibration inspection for line has been completed normally.

(Because the writing is made to both the Factory region and the User region, the user side will also be treated as adjusted.)

When the calibration inspection of the user calibration has been completed normally.

■ Conditions for the adjustment completion mark (\*) to go out.

(The mark will go out if one of the multiple conditions is met.)

☐ Outermost circumference inspection

When the above mentioned lighting conditions are not applicable.

When the adjusted value has been initialized (Data initialize).

When the EEPROM has been initialized.

☐ 16 point adjustment

When the above mentioned lighting conditions are not applicable.

When the adjusted value has been initialized (Data initialize).

When the EEPROM has been initialized.

☐ User outermost circumference inspection

When the above mentioned lighting conditions are not applicable.

When the adjusted value has been initialized (Data initialize).

When the EEPROM has been initialized.

☐ User 16 point adjustment

When the above mentioned lighting conditions are not applicable.

When the adjusted value has been initialized (Data initialize).

When the EEPROM has been initialized.

#### [Key operation specifications]

Remote controller key
BACK
$\uparrow$
$\rightarrow$
MENU_ENTER

В

C

D

Е

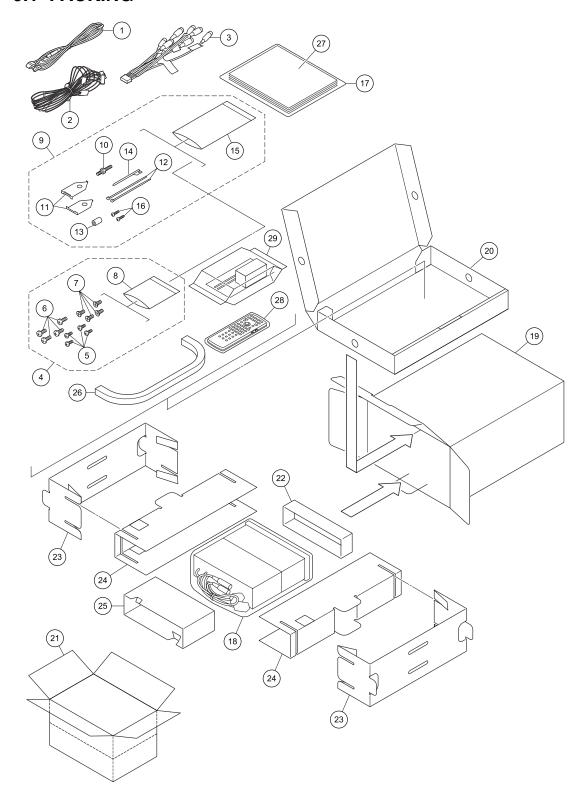
## 9. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "\*" are generally unavailable because they are not in our Master Spare Parts List.

- The \(\therefore\) mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screw adjacent to  $\nabla$  mark on the product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

## 9.1 PACKING

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#### (1)PACKING SECTION PARTS LIST

Mark N	<u>lo.</u>	<b>Description</b>	Part No.	Mark No.	<u>Description</u>	Part No.
	1	Cord Assy	CDE7321	18	Polyethylene Bag	CEG1042
	2	Cord Assy	CDP1013	19	Unit Box	See Contrast table(2)
	3	Cord Assy	CDP1014	20	Sub Unit Box	CHG6195
	4	Screw Assy	CEA5144			
	5	Screw	BMZ50P060FTC	21	Contain Box	See Contrast table(2)
				22	Protector	CHP2540
	6	Screw(M4 x 3)	CBA1870	23	Protector	CHP3351
	7	Screw	CMZ50P060FTC	24	Protector	CHP3352
*	8	Polyethylene Sheet	CNM4338	25	Protector	CHP3353
*	9	Accessory Assy	CEA7477			
	10	Screw	CBA1650	26	Sheet	CNN1741
				27-1	Owner's Manual	CRB2366
	11	Bracket	CND4079	27-2	Owner's Manual	See Contrast table(2)
*	12	Lock Tie	CNV-754	27-3	Owner's Manual	See Contrast table(2)
	13	Bush	CNV3930	27-4	Installation Manual	See Contrast table(2)
	14	Pen	CNV8969			
*	15	Polyethylene Bag	E36-615	27-5	Caution Card	CRP1310
				28	Remote Control Unit	CXC6317
	16	Screw	JGZ20P070FTC	29	Optical Terminal Conversion Assy	See Contrast table(2)
	17	Polyethylene Bag	CEG1116			

#### (2) CONTRAST TABLE

AVH-P5950DVD/XN/RC, AVH-P5950DVD/XN/RD and AVH-P5950DVD/XN/RI are constructed the same except for the following:

Mark	No.	Description	AVH-P5950DVD/XN/RC	AVH-P5950DVD/XN/RD	AVH-P5950DVD/XN/RI
	19	Unit Box	CHG6191	CHG6192	CHG6194
	21	Contain Box	CHL6191	CHL6192	CHL6194
	27-2	Owner's Manual	CRB2367	CRB2369	CRB2371
	27-3	Owner's Manual	CRB2368	CRB2370	Not used
	27-4	Installation Manual	CRD4215	CRD4216	CRD4217
	29	Optical Terminal Conversion Assy	CXC3584	CXC3584	Not used

#### Owner's Manual, Installation Manual

Part No.	Language
CRB2366	English
CRB2367	Traditional Chinese
CRB2368	Korean
CRB2369	Spanish
CRB2370	Portuguese(B)
CRB2371	Arabic
CRD4215	English, Traditional Chinese, Korean
CRD4216	English, Spanish, Portuguese(B)
CRD4217	English, Arabic

AVH-P5950DVD/XN/RC

В

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## (1)EXTERIOR(1) SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	Screw	BMZ20P030FTB	38	Holder	CND1432	
2	Screw	BMZ20P160FTC	39	••••		^
3	Cord Assy	CDE8381	40	Connector(CN4301)	CKM1506	Α
4	Cord Assy	CDE8382				
5	Cord Assy	CDE8383	41	Jack(CN4203)	CKN1022	
	•		42	Connector(CN4202)	CKS4985	
6	Cord Assy	CDE8385	43	Connector(CN4201)	CKS5041	
7	Flat Cable	CDE8386	44	Connector(CN4302)	CKS5270	
8	Panel	CNB3383	45	Holder	CND3849	
9	Insulator	CNN1578				
10	Insulator	CNN1737	46	Holder	CND3996	
			47	Fan Motor	CXM1262	
11	Clamper	CNV9670	48	Fan Motor	CXM1276	В
12	DVD Amp Assy	See Contrast table(2)	49	Screw	AMZ26P040FTC	
13	Screw	BMZ26P120FTC	50	Screw	BMZ26P030FTC	
14	Antenna Cable	CDH1362				
15	Terminal(CN762)	CKF-047	51	Case	CNB3384	
			52	Sheet	CNM8228	
16	Plug(CN761)	CKM1516	53	Insulator	CNN1575	-
17	Connector(CN462)	CKS4817	54	••••		
18	Connector(CN951)	CKS4822	55	Cap	CNV6727	
19	Connector(CN381)	CKS4827				
20	Connector(CN961)	CKS4977	56	Button	CAI1460	_
			57	Screw(M2 x 3)	CBA2078	С
21	Connector(CN391)	CKS4983	58	Screw(M2 x 3)	CBA2079	
22	Connector(CN311)	CKS4987	59	Spring	CBH2681	
23	Connector(CN531)	CKS5036	60	Spring	CBH2682	
24	Connector(CN481)	CKS5038				
25	Connector(CN461)	CKS5041	61	Spring	CBH2683	
			62	Holder	CND3852	
26	Connector(CN541)	CKS5100	63	Holder	CND3853	
27	Connector(CN351)	CKS5529	64	Arm	CNV8571	
28	Connector(CN512)	CKS5722	65	Arm	CNV8572	
29	Holder	CND3847			0111/0	D
30	Holder	CND3848	66	Arm	CNV8573	
			67	Connector	CKS4658	
31	Insulator	CNM9521	68	Flexible PCB	CNP9973	
32	Spacer	CNN1909	69	Panel Unit	CXC7633	
33	Spacer	CNM9523	70	Screw	JGZ20P020FTB	
34	Heat Sink	CNR1906		0 (110 0)	0014750	-
35	FM/AM Tuner Unit	CWE2046	71	Screw(M2 x 8)	CBA1752	
			72	Screw(M2 x 3)	CBA1877	
36	Connector(CN101)	CKS4653	73	Holder	CND4167	
37	Connector(CN102)	CKS4653	74	IC(IC331)	PAL007C	

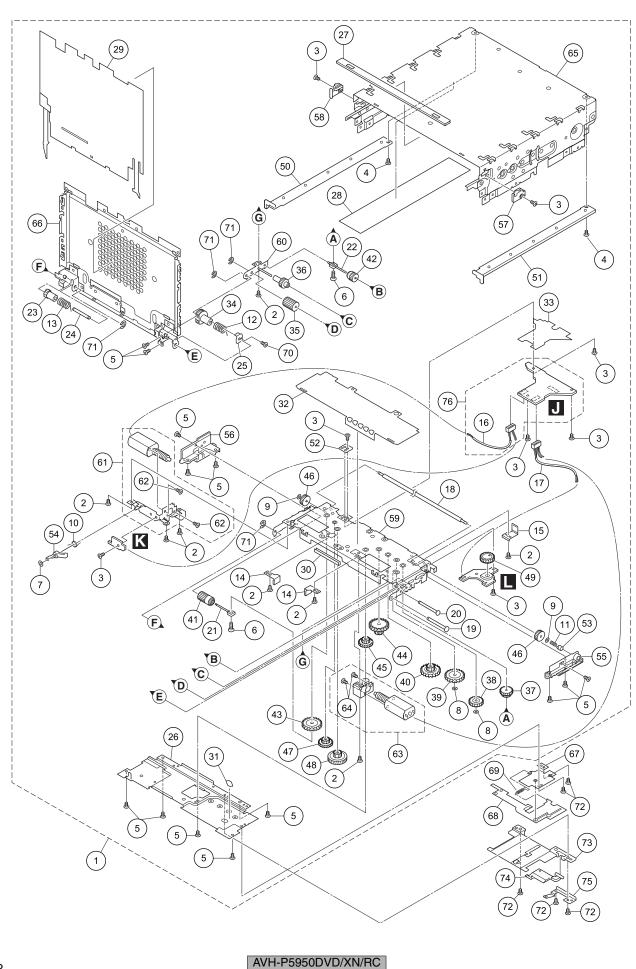
(2) CONTRAST TABLE AVH-P5950DVD/XN/RC, AVH-P5950DVD/XN/RD and AVH-P5950DVD/XN/RI are constructed the same except for the following:

Mark	No.	Description	AVH-P5950DVD/XN/RC	AVH-P5950DVD/XN/RD	AVH-P5950DVD/XN/RI
	12	DVD Amp Assy	CXC7509	CXC7510	CXC7511

AVH-P5950DVD/XN/RC

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9.3 EXTERIOR(2)



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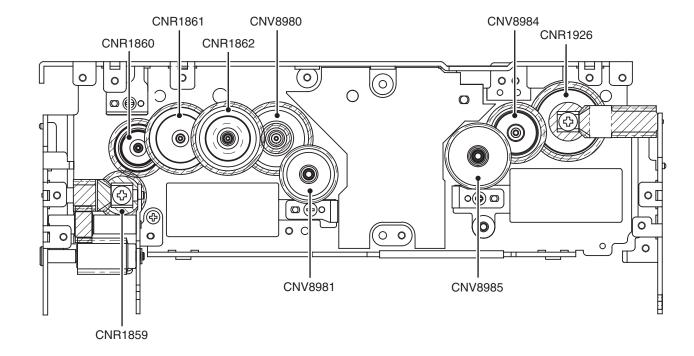
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5		6	7	8
EVTEDIOD(3) SECTION	DADTOLICT			

EXTERIOR(2) SECTION PARTS LIST								
Mark No.	<b>Description</b>	Part No.	<u>Mark</u> <u>No.</u>	<u>Description</u>	Part No.			
1	Drive Unit	CXC7637	50	Rack	CNV8995			
2	Screw(M2 x 2)	CBA1608				Α		
3	Screw(M2 x 1.5)	CBA1615	51	Rack	CNV8996			
4	Screw(M2 x 2)	CBA1872	52	Guide	CNV8999			
5	Screw(M2 x 3)	CBA1877	53	Lever	CNV9000			
			54	Arm	CNV9001			
6	Screw(M2.3 x 6)	CBA2027	* 55	Guide	CNV9534	_		
7	Washer	CBF1037						
8	Washer	CBF1039	* 56	Guide	CNV9535			
9	Washer	CBF1064	57	Guide	CNV9003			
10	Spring	CBH2906	58	Guide	CNV9004			
		07/1000	59 60	Frame Unit Holder Unit	CXC6145	_		
11	Spring	CBH2907	60	Holder Offic	CXC6145	В		
12	Spring	CBH2908	61	Motor Unit	CXC6638			
13	Spring	CBH2909	62	Screw	JGZ20P025FTC			
14	Spring	CBL1723	63	Motor Unit	CXC6639			
15	Spring	CBL1734	64	Screw	JGZ20P025FTC			
16	Cord	CDE8127	* 65	Chassis Unit	CXC7638			
17	Cord	CDE8128						
18	Shaft	CLA4651	* 66	Case Unit	CXC7640			
19	Shaft	CLA4661	67	Bracket Unit	CXC7978			
20	Shaft	CLA4662	68	Lever	CND4077			
	ona	02/11002	69	Spring	CBH2750	С		
21	Shaft	CLA4663	70	Screw	JFZ17P025FTC			
22	Shaft	CLA4664						
23	Shaft	CLA4665	71	Washer	YE15FTC			
24	Shaft	CLA4666	72	Screw(M2 x 3)	CBA1877			
25	Holder	CND3245	73	Cover	CNV9643			
			74	Arm	CNV9644			
26	Cover	CND3252	75	Spring	CBL1766			
27	Sheet	CNN1055	76	Main PCB Unit(SERVICE)	CXX2316			
28	Sheet	CNN1056						
* 29	Insulator	CNN1583				D		
30	Sheet	CNN1065						
31	Insulator	CNN1068						
* 32	Sheet	CNN1349						
33	Insulator	CNN1058						
34	Gear	CNR1855						
35	Gear	CNR1856						
36	Gear	CNR1857						
37	Gear	CNR1859						
38	Gear	CNR1860				E		
39	Gear	CNR1861						
40	Gear	CNR1862						
41	Gear	CNR1864						
42	Gear	CNR1925				_		
42	Gear	CNR1925 CNR1926						
43	Gear	CNV8980						
45	Gear	CNV8981						
.3								
46	Gear	CNV8983				_		
47	Gear	CNV8984				F		
48	Gear	CNV8985						
49	Gear	CNV8987						

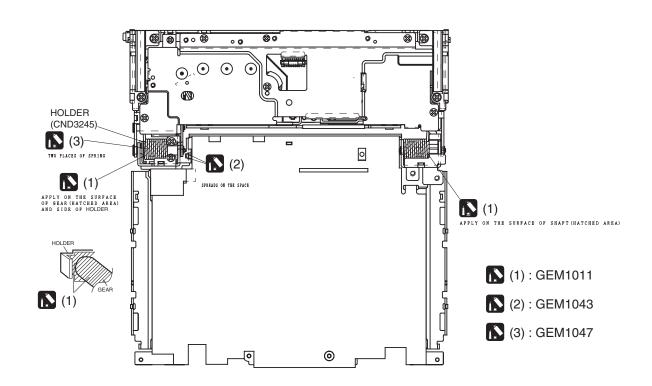
6 AVH-P5950DVD/XN/RC 7 8

### The gear assembly figure of the Drive Unit

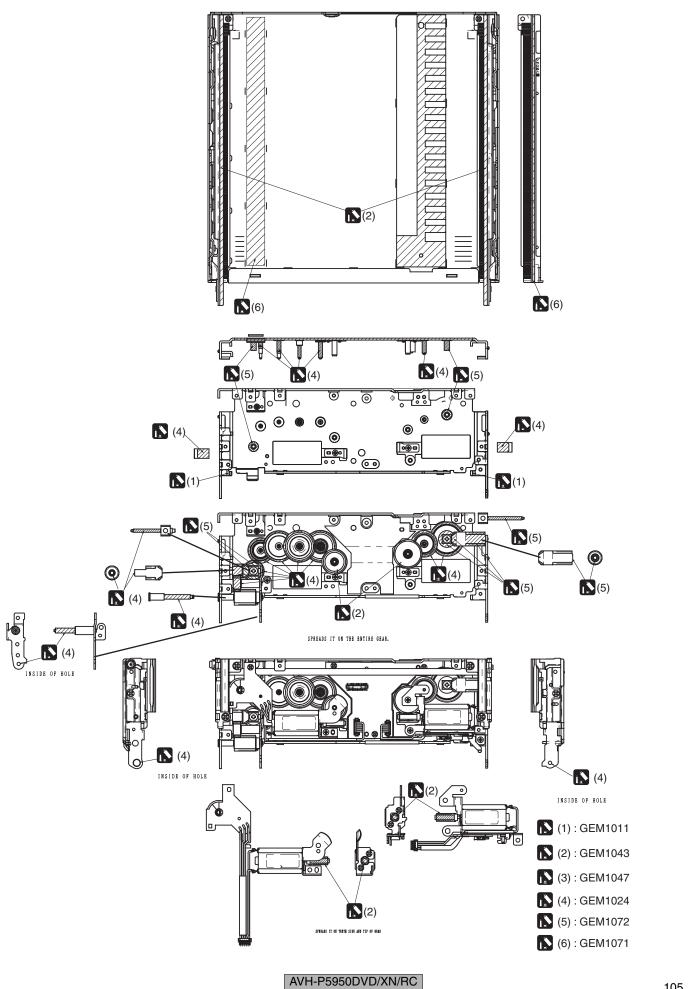


#### Grease

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AVH-P5950DVD/XN/RC

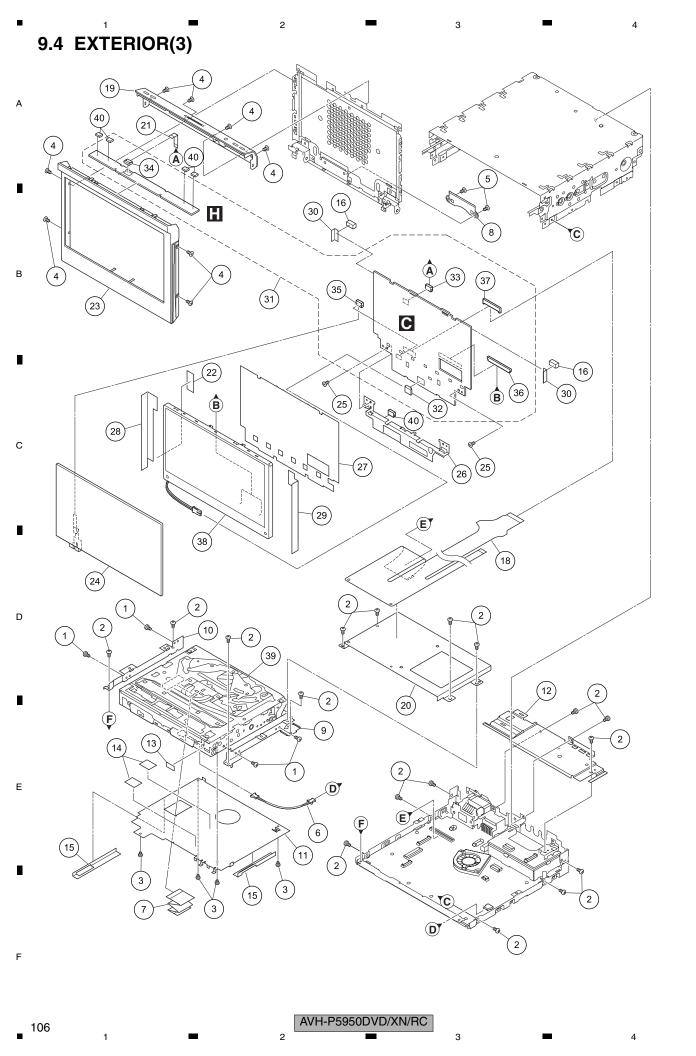


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Sheet CNN1748 29 Sheet CNN1749 30 Sheet CNN1750

31 Monitor Unit CWN2330 Connector(CN5201) CKS4428 32 33 Connector(CN5002) CKS5035 Connector(CN5901) CKS5035 34 35 Connector(CN5001) CKS5105

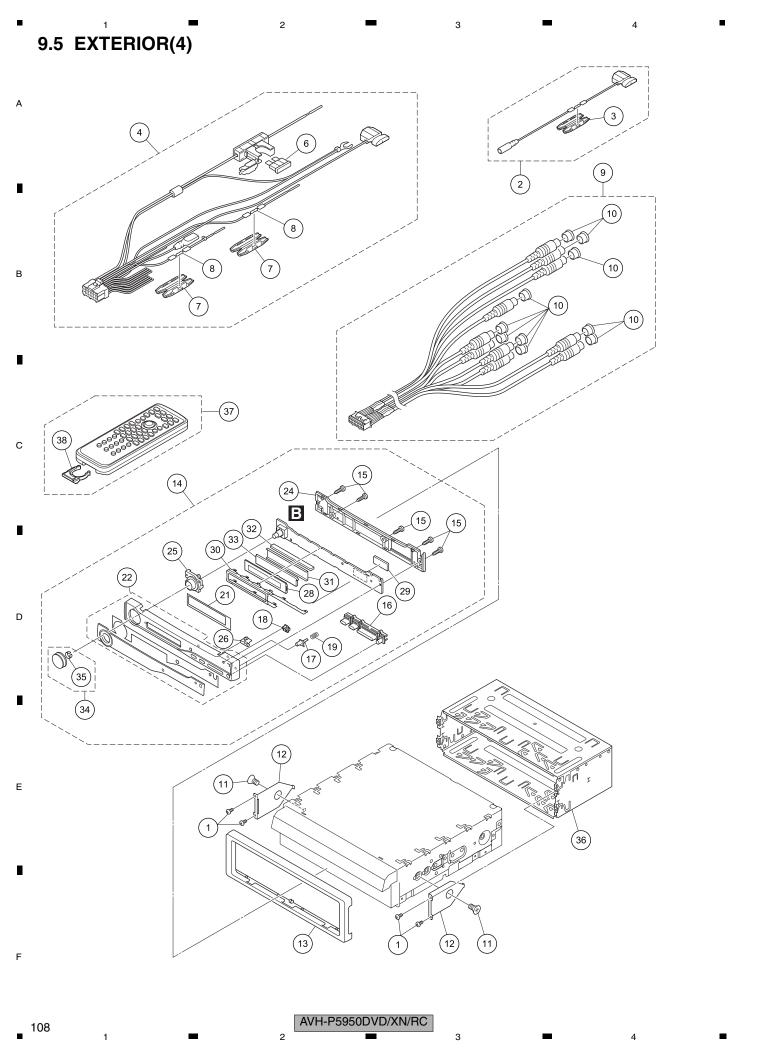
36 Connector(CN5501) CKS5111 37 Connector(CN5003) CKS5637 LCD Module CWX3264 38

DVD Mechanism Module(MS5AVCODE2) CXK6631 39

40 Sheet CNN2026

AVH-P5950DVD/XN/RC

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40 Cushion

		n(4) SECTION FART	
Mark N	<u>lo.</u>	<u>Description</u>	Part No.
	1	Screw	BMZ20P030FTB
2	2	Cord Assy	CDE7321
;	3	Сар	CNS1472
4	4	Cord Assy	CDP1013
	5	•••••	
<u> </u>	6	Fuse(10 A)	CEK1136
	7	Сар	CNS1472
8	8	Resistor	RS1/2PMF102J
9	9	Cord Assy	CDP1014
1	10	Сар	CNV6727
1	11	Screw	CMZ50P060FTC
1	12	Bracket	CND3855
1	13	Panel	CNS8978
1	14	Grille Assy	CXC7521
1	15	Screw	BPZ20P080FTB
1	16	Button(BAND, SEEK)	CAI1175
	17	Button(DETACH)	CAI1176
	18	Button(RESET)	CAI1177
	19	Spring	CBH2680
	20	••••	
_	-		
2	21	Sheet	CNN1587
	22	Grille Assy	CXC8814
	23	•••••	
		Cover	CNS8964
		Lighting Conductor	CNV9504
	-0		31110004
9	26	Lighting Conductor	CNV9506
	27	•••••	3.11.0300
	28	LCD	CAW1946
	29	Connector(CN4001)	CKS4657
	30	Holder	CND3851
3	,0	I IOIUEI	CINDOODI
3	31	Sheet	CNN1580
	32	Connector	CNV9502
	33	Lighting Conductor	CNV9502 CNV9503
	33 34		
		Knob Unit	CXC7631
3	35	Spring	CBL1761
_	26	Llaldar	CND2054
	36	Holder	CND3854
	37	Remote Control Unit	CXC6317
3	38	Cover	CZN7062

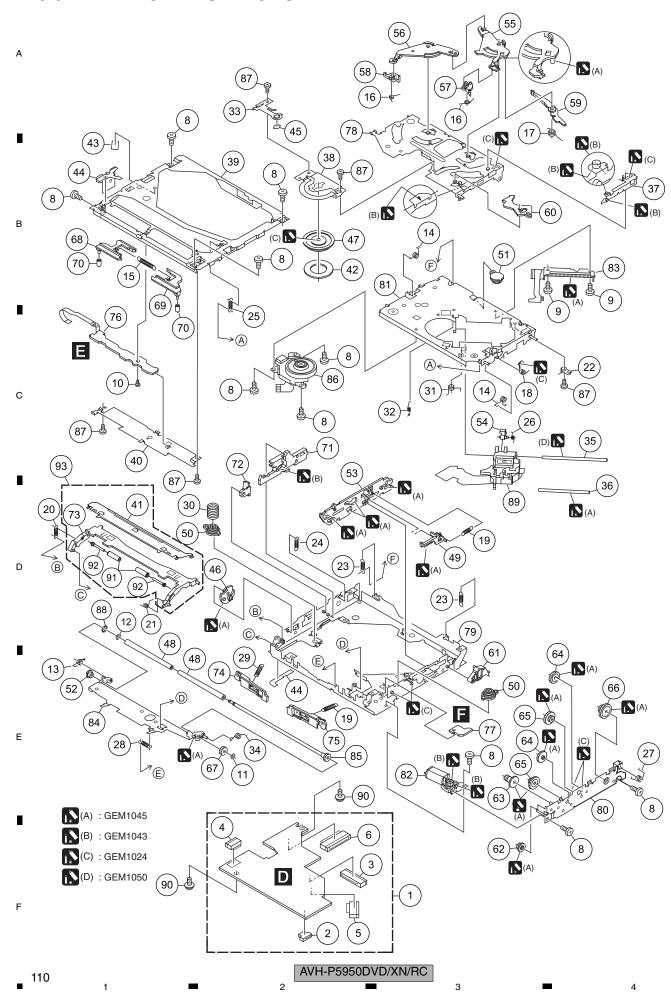
CNN1887

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#### 9.6 DVD MECHANISM MODULE



DVD MECHANISM MODILI E SECTION DADTS LIST

DVD MECHANISM MODULE SECTION PARTS LIST										
Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.					
1	DVD Core Unit	YWX5005	50	Damper	CNV9061					
2	Connector(CN1852)	CKS4817								
3	Connector(CN1101)	CKS4841	51	Damper	CNV9062					
4	Connector(CN1301)	CKS5017	52	Collar	CNV8845					
5	Connector(CN1201)	CKS5043	53	Lever	CNV8865					
			54	Rack	CNV9063					
6	Connector(CN1901)	CKS5054	55	Arm	CNV8867					
7	••••									
8	Screw	BMZ20P020FTC	56	Arm	CNV8868					
9	Screw	BMZ20P025FNI	57	Arm	CNV9577					
10	Screw	CBA1787	58	Arm	CNV8870					
			59	Arm	CNV8871					
11	Washer	CBF1038	60	Arm	CNV8872					
12	Washer	CBF1064								
13	Spring	CBH2586	61	Arm	CNV8873					
14	Spring	CBH2588	62	Gear	CNV8874					
15	Spring	CBH2589	63	Gear	CNV8875					
			64	Gear	CNV8876					
16	Spring	CBH2590	65	Gear	CNV8877					
17	Spring	CBH2591								
18	Spring	CBH2592	66	Gear	CNV8878					
19	Spring	CBH2593	67	Gear	CNV8879					
20	Spring	CBH2596	68	Lever	CNV8903					
			69	Lever	CNV8904					
21	Spring	CBH2597	70	Roller	CNV8905					
22	Spring	CBL1726			ON 11 (00.00					
23	Spring	CBH2599	71	Lever	CNV8908					
24	Spring	CBH2600	72	Arm	CNV8909					
25	Spring	CBH2601	73	Guide	CNV9569					
			74	Arm	CNV9116					
26	Spring	CBH2926	75	Arm	CNV9117					
27	Spring	CBH2604	76	Compound Unit(A)	CWX3154					
28	Spring	CBH2605	70	Compound Unit(B)	CWX3134 CWX3394					
29	Spring	CBH2710	78	Arm Unit	CXC7872					
30	Spring	CBH2711	79	Frame Unit	CXC6442					
21	Carina	CBH2935	80	Bracket Unit	CXB8685					
31 32	Spring Spring	CBH2890	00	Bracket Office	CALCOCC					
33	Spring	CBL1689	81	Chassis Unit	CXC6443					
34	Spring	CBH2898	82	Motor Unit(LOAD)(M1)	CXC4912					
35	Shaft	CLA4206	83	Motor(STEPPING)(M2)	CXM1364					
00	Onart	OLA4200	84	Arm Unit	CXC5486					
36	Shaft	CLA4701	85	Roller Unit	CXC5708					
37	Lever	CNC9933								
38	Holder	CND2643	86	Motor(SPDL)(M3)	CXM1362					
39	Frame	CND2250	87	Screw	JFZ20P018FTC					
40	Holder	CND2251	88	Washer	YE20FTC					
			89	Pickup Unit(Service)	CXX2118					
41	Holder	CND3936	90	Screw	IMS20P030FTC					
42	Sheet	CNM6883								
43	Sheet	CNM8697	91	Collar	CNV9570					
44	Sheet	CNM9658	92	Shaft	CLA4771					
45	Sheet	CNM9407	93	Guide Unit	CXC8572					
46	Cam	CNV7156								
47	Clamper	CNV7158								
48	Roller	CNV7165								
49	Rack	CNV7175								

7

В

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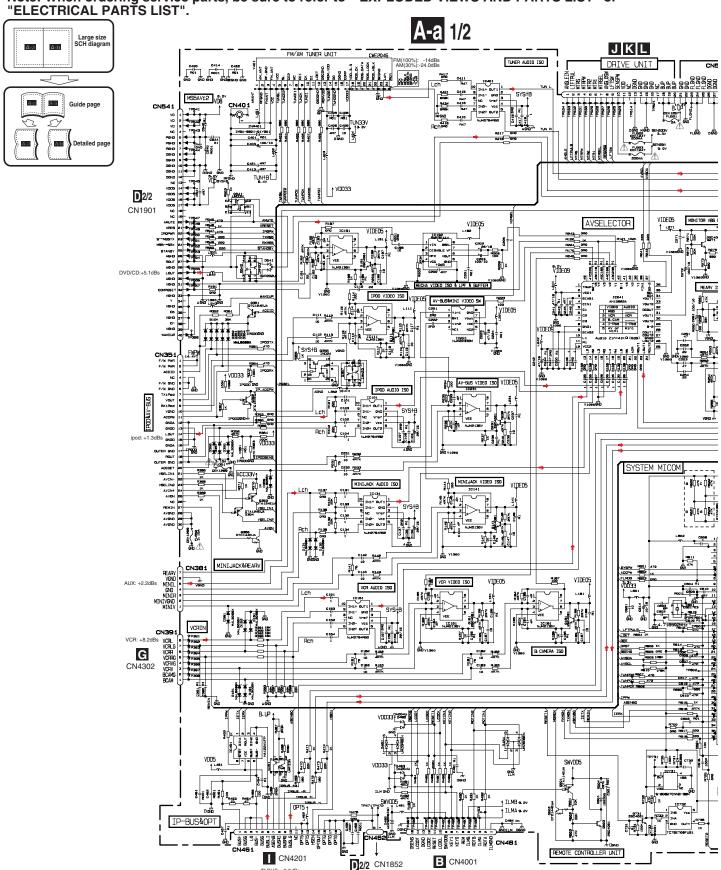
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AVH-P5950DVD/XN/RC

# 10. SCHEMATIC DIAGRAM

### 10.1 MOTHER UNIT(SYSTEM PART)(GUIDE PAGE)

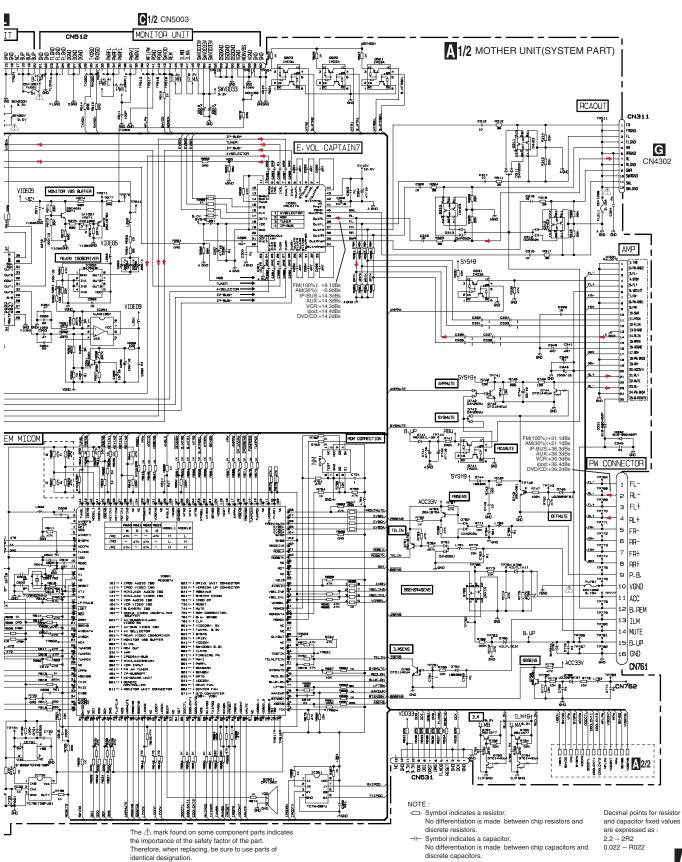
Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



A 1/2

AVH-P5950DVD/XN/RC

# A-b 1/2



AVH-P5950DVD/XN/RC

discrete capacitors.

CN311 AMP FU311 CEK1259 A 1/2 MOTHER UNIT(SYSTEM PART) 웋 **PCAOUT** C342 F1 C343 C343 1000/15 5341 14 14 FM(100%):+31.1dBs AM(30%):+21.1dBs PGP GN-C339 645 7H \$ DB SSK 200 S IMH23 51 15 15 15 L L EQ 833 438 C334 C333 25 DE SYS+B Tz42 C338 101 SYS+B AMPMUTE SYSMUTE A-b A-a 47/16 C304 H1 CAPTAIN7 THIM C303 FM(100%): +9.1dBs AM(30%): -0.9dBs IP-BUS:+14.3dBs AUX:+14.3dBs VCR:+14.3dBs ipod:+14.4dBs DVD/CD:+14.2dBs E. VOL PESSE CRD CRD ACRD WONABS ACRD ACRD OCDCRD OCDCRD HCES DEENS CCDM 975A 676 ∫ SWVDD33 ONDOSO AEEOOAMS AEEOOAMS AEEOOAMS ENZE 8 8 8 TESH. \$50 \$20 \$20 \$20 \$20 ZRIM. ICMB C1/2 CN5003 ZHTW: 劉言 MSOS SWYDD PGND PGND PGND MADD MONITOR CCID MELPW Mdd IVAW9 SNII 1100 PWRFL PWRFL PWRFL SNIY: TNIA SENS OSOXT OSOXA 0H0 0H0 VBS BUFFER ZENZ .ONZF CN512 DC/ID DC/ID DC/ID DC/ID ECC/ID ECC/ID A-b 1/2 AVH-P5950DVD/XN/RC

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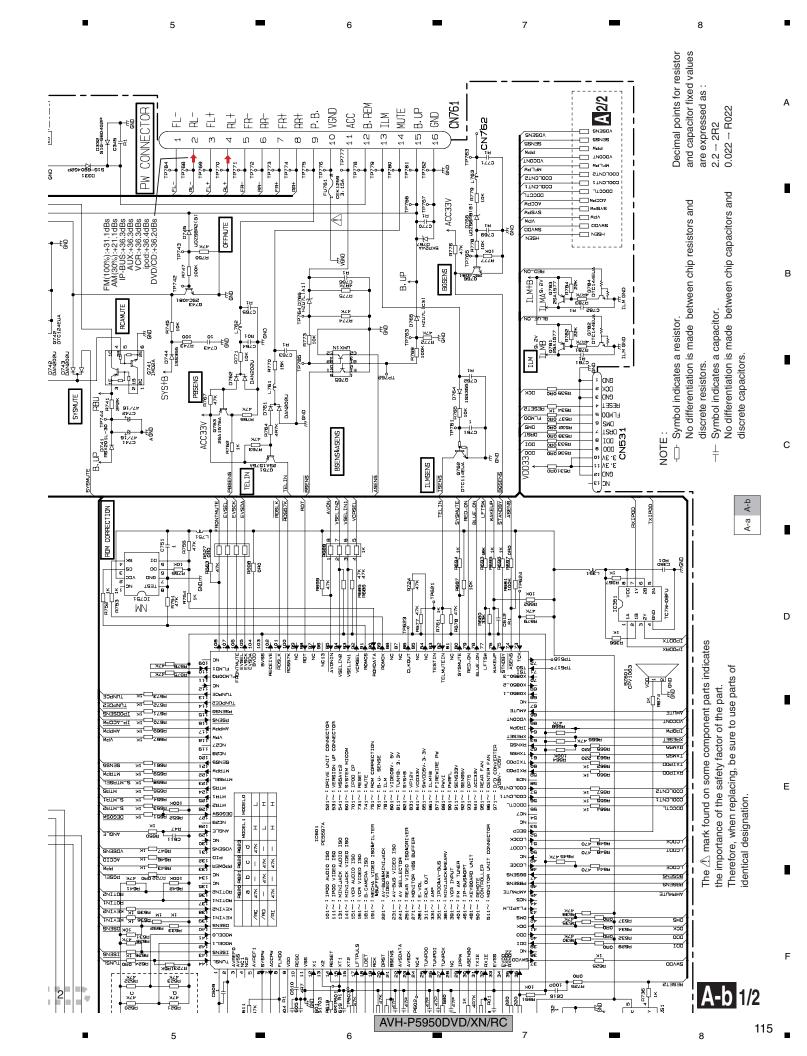
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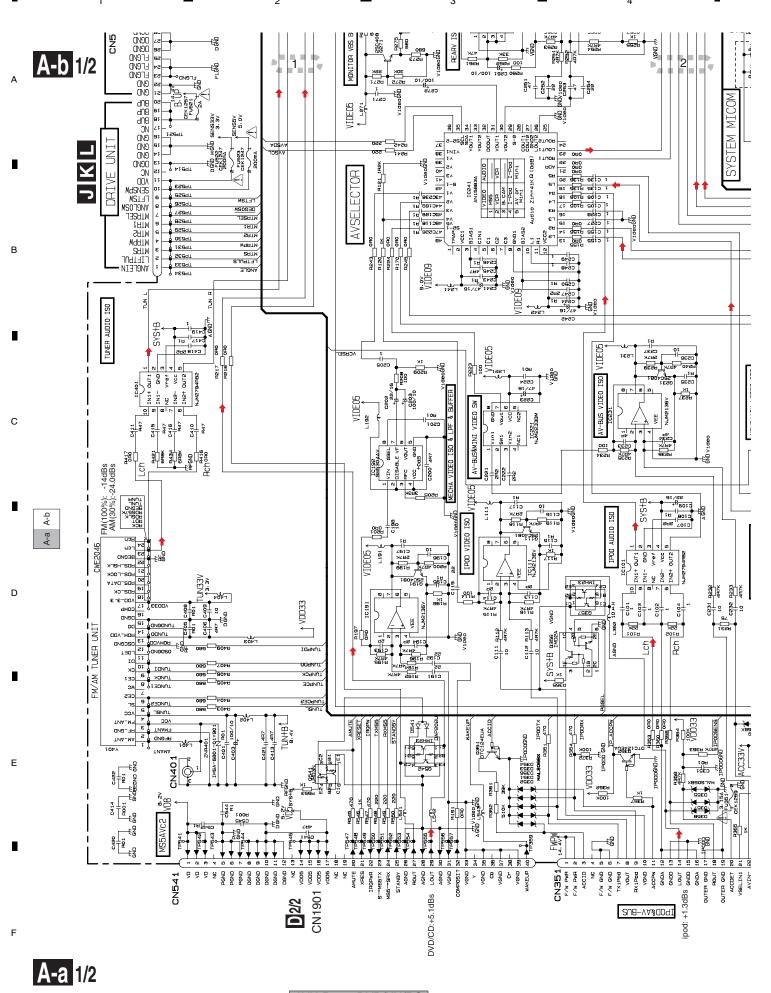
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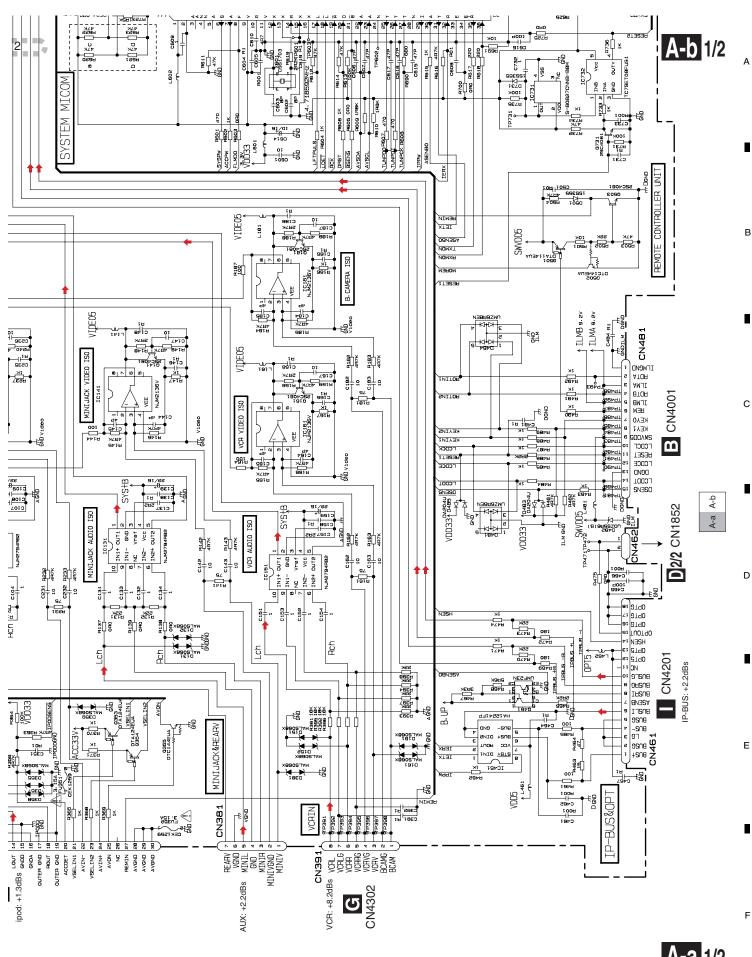
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AVH-P5950DVD/XN/RC

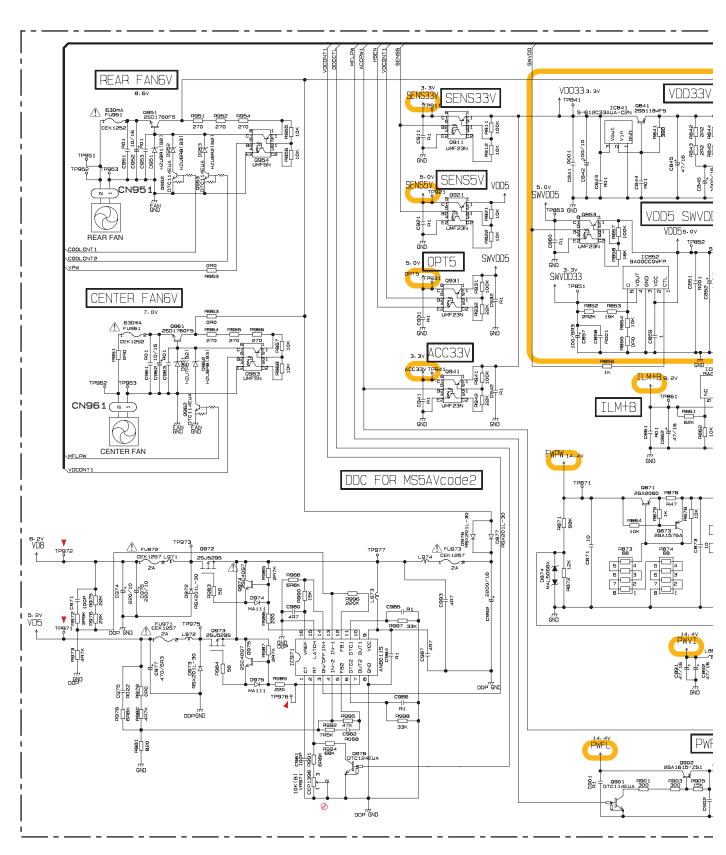


A-a 1/2

AVH-P5950DVD/XN/RC

# 10.2 MOTHER UNIT(POWER SUPPLY PART)(GUIDE PAGE)

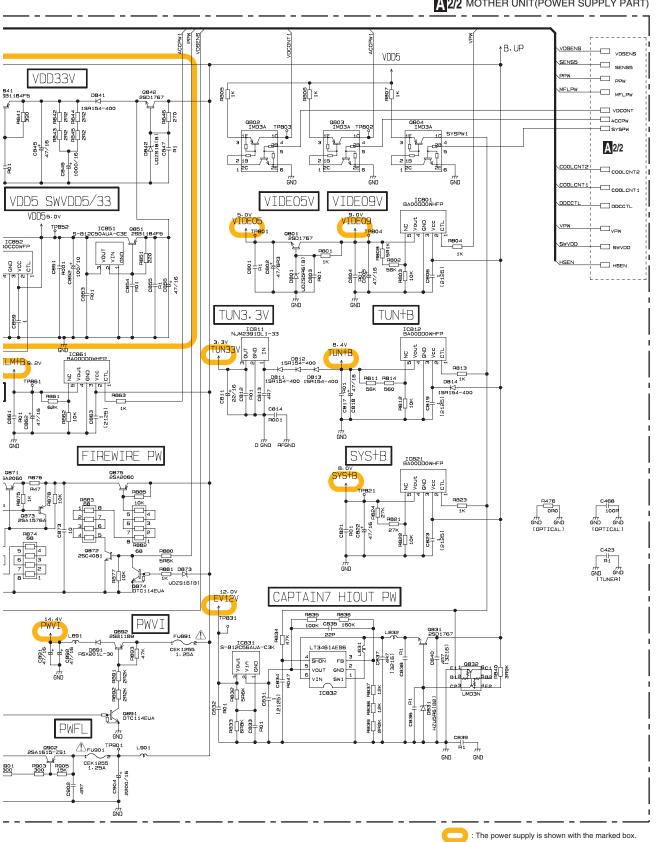
A-a 2/2



A 2/2

AVH-P5950DVD/XN/RC

A 2/2 MOTHER UNIT(POWER SUPPLY PART)



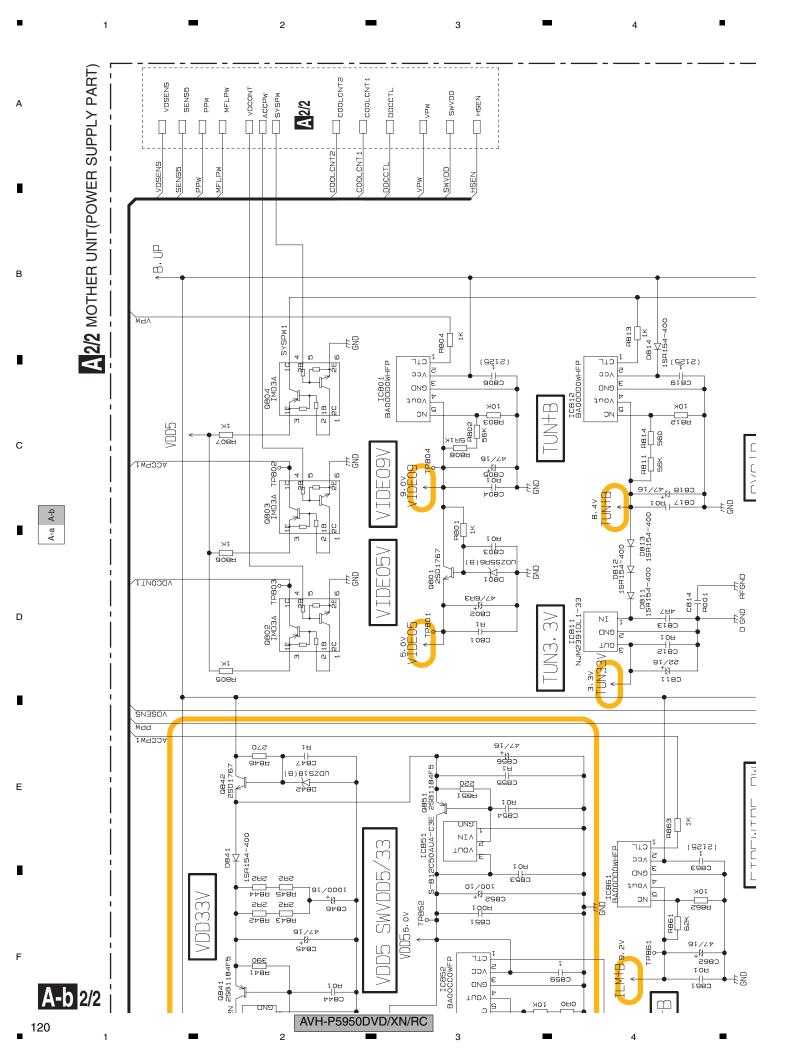
A 2/2

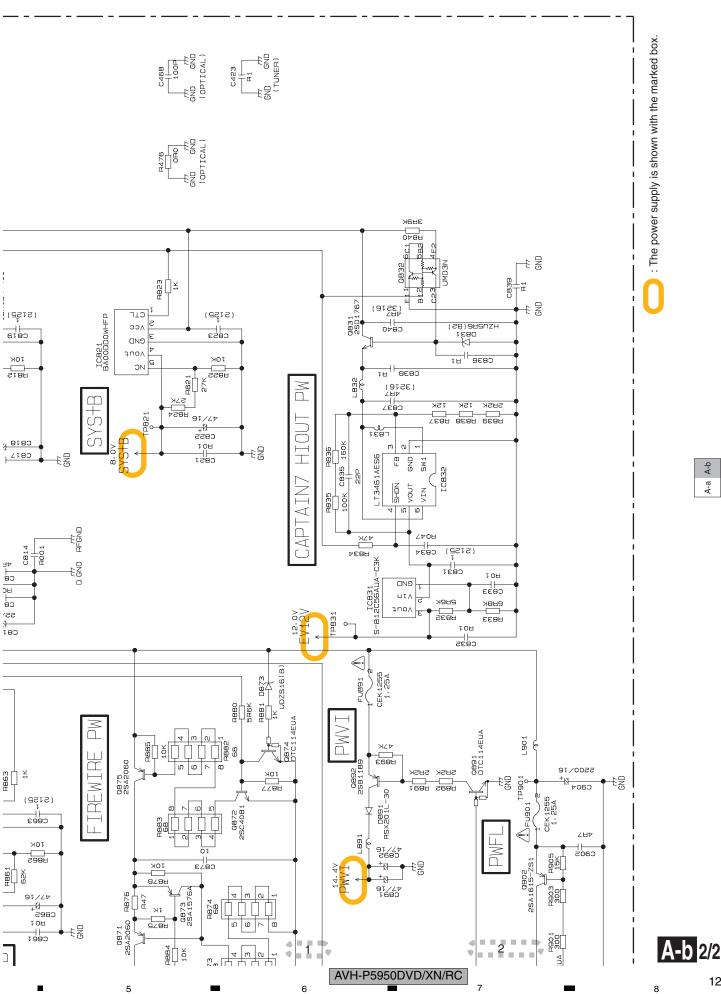
AVH-P5950DVD/XN/RC

5

119

В



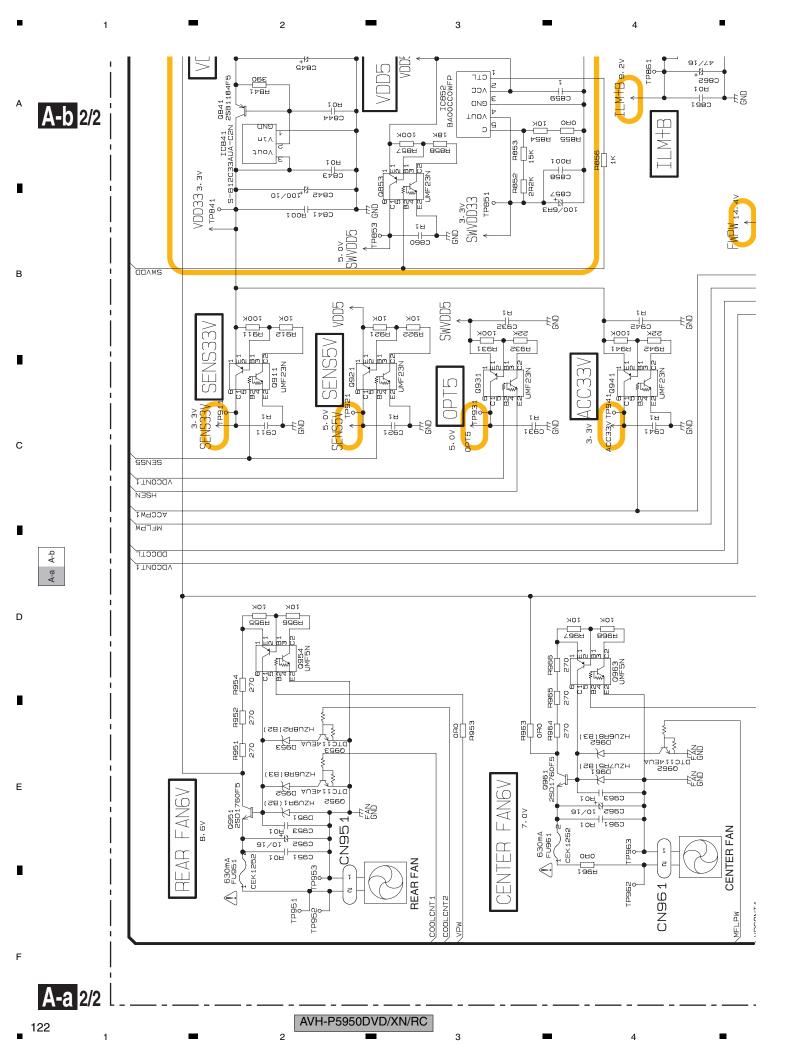


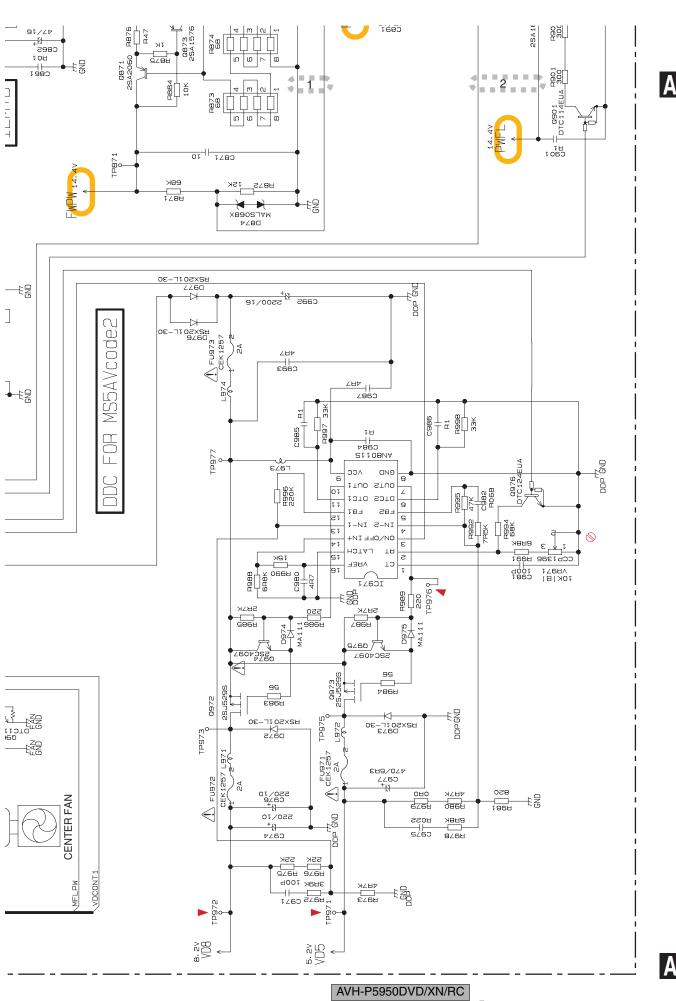
В

С

D

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5

A-b 2/2

В

С

A-a A-b

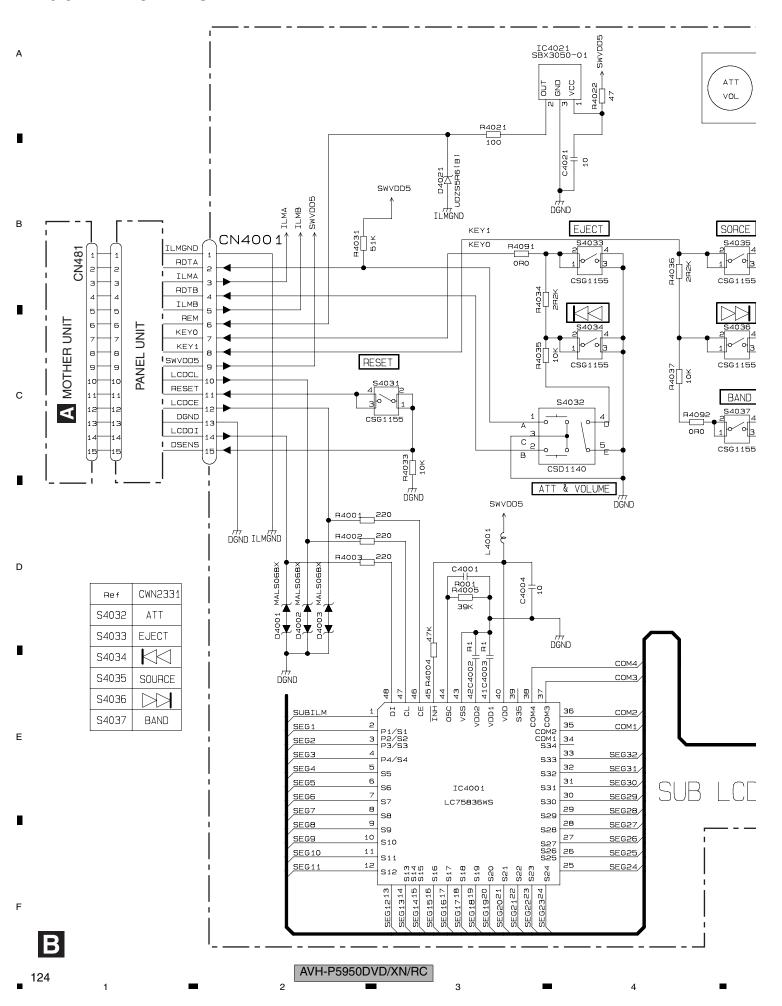
D

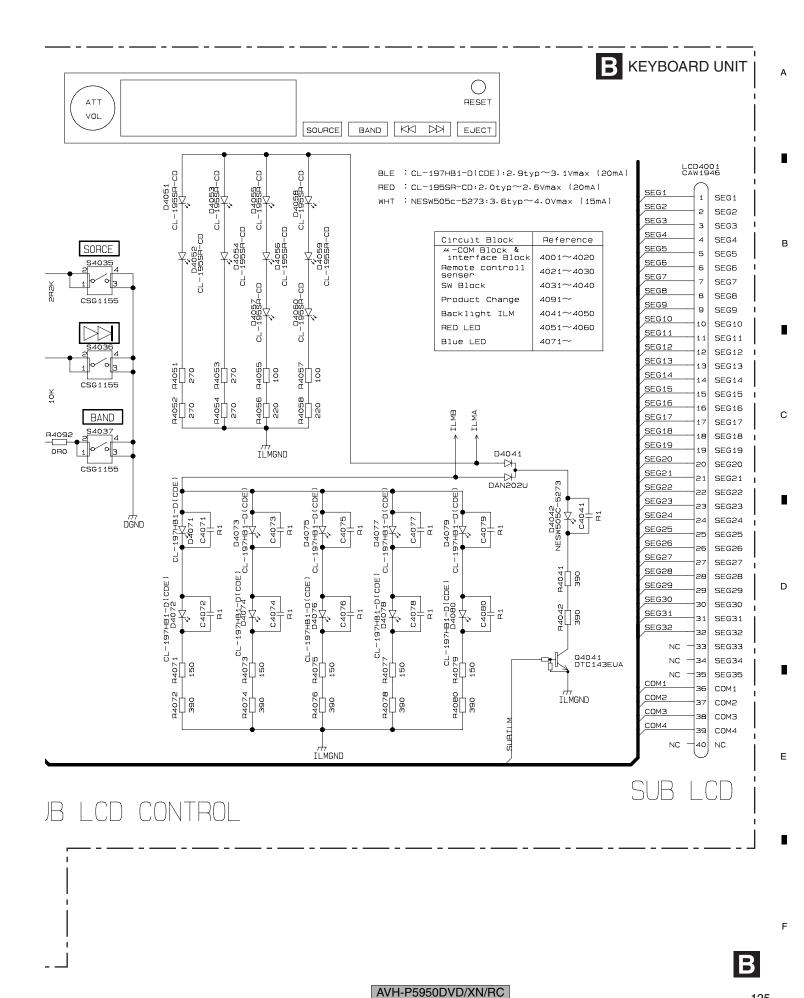
E

0/0

Ω

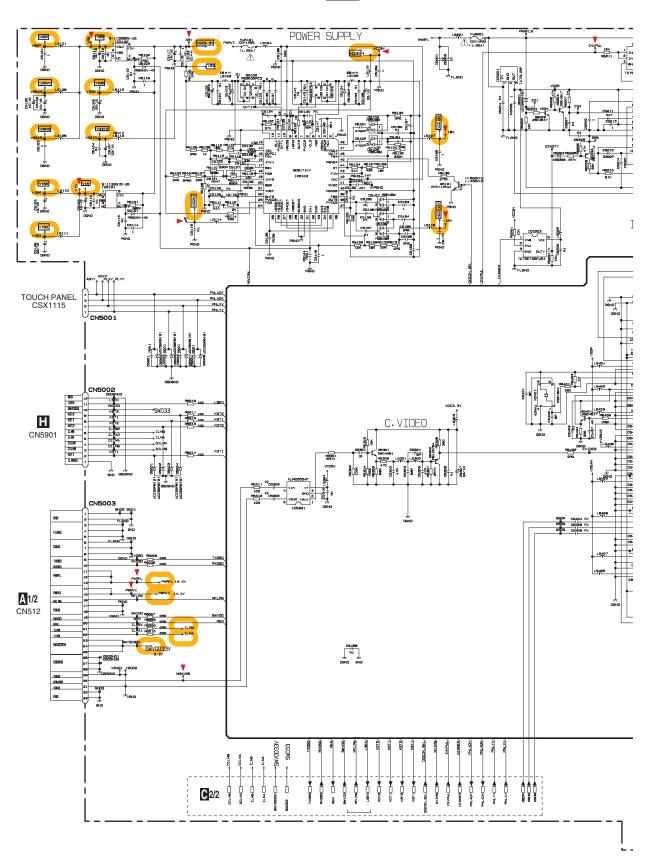
#### **10.3 KEYBOARD UNIT**





# 10.4 MONITOR PCB(MONITOR PART)(GUIDE PAGE)

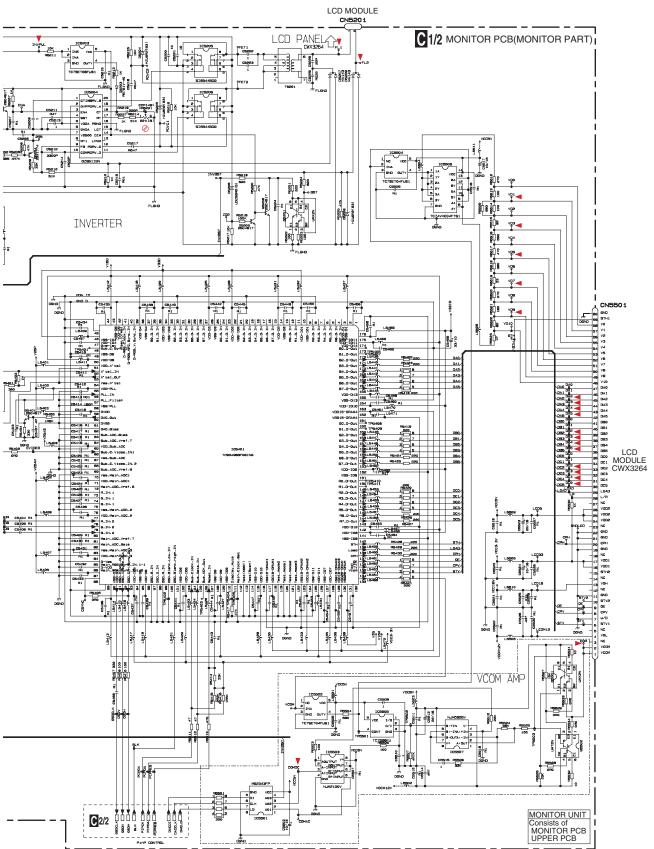
C-a 1/2



**C** 1/2

AVH-P5950DVD/XN/RC

C-b 1/2



**C** 1/2

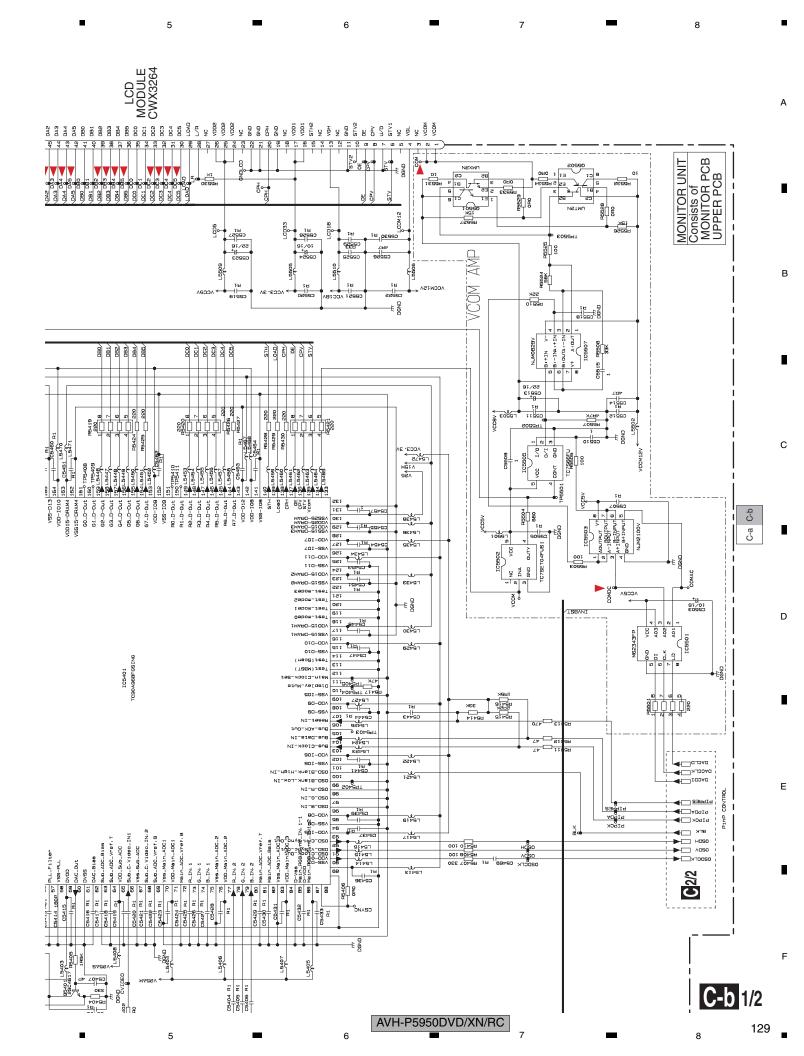
AVH-P5950DVD/XN/RC

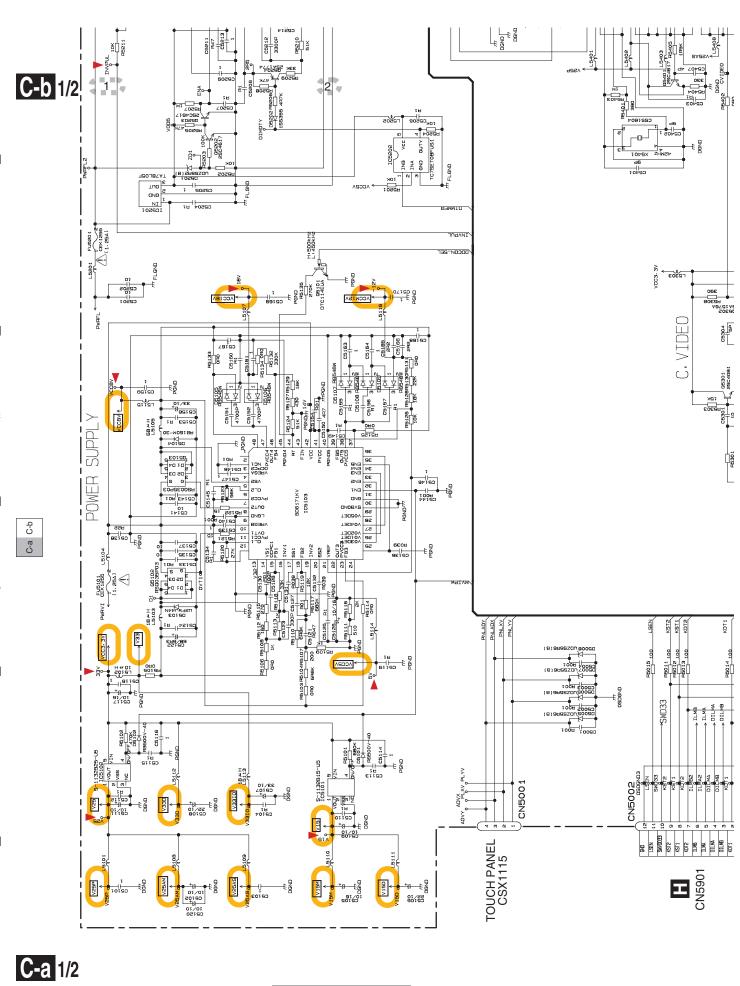
CO CN5501

evo
voint
voint DevD 59 C1/2 MONITOR PCB(MONITOR PART) VDV P. . 800 500 200-200− 800 50 6099E 11997 91990 DAO DA1 DA2 DA4 DA5 8 B B B B 33/10 02/10 OIEEV. A¥ GND H5419 220 1 2 8 3 6 7 4 5 6 6 7 ICSS04 INA GND OUTY С LCD MODULE CN5201 S<sub>P</sub> ∠£₹97 PANEL cwx3264 VDD-IO1 SE432 NI 'G-0H \20-D2 \20-D5 201 - 202 | 203 | 203 | 204 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 16431 H2220 100K 100K 20526 20526 20526 20526 8 13218 8 680 201-SSA 61-D. IN PSI710K 2458 EG-GGV 2450 9€ 9€ ∠€ NI .O\_08 ⊁G-BS∧ ⊁G-DG∧ HB75149 D5203 HB75149-40 9€ 07 98 91797 104 CES16 1W INVERTER | Listop | AB | Control | x.tel\_IN x'tel\_OUT CTIMENUB 20
OVPDGHV.A 19
ENA CT 18
ENA CT 17
FOR PRINT 16
VODA POND 16
VODA DIM 13
HT I. LPMM 13
HT I. LPMM 13
HT I. LPMM 13
HT I. LPMM 13 C5414 180P 57 VE C5415 58 DV 12 54 101 55 VCC PUT BNI AND OND C5213 B211 33K 5826944 C-b 1/2 ₩ M AVH-P5950DVD/XN/RC

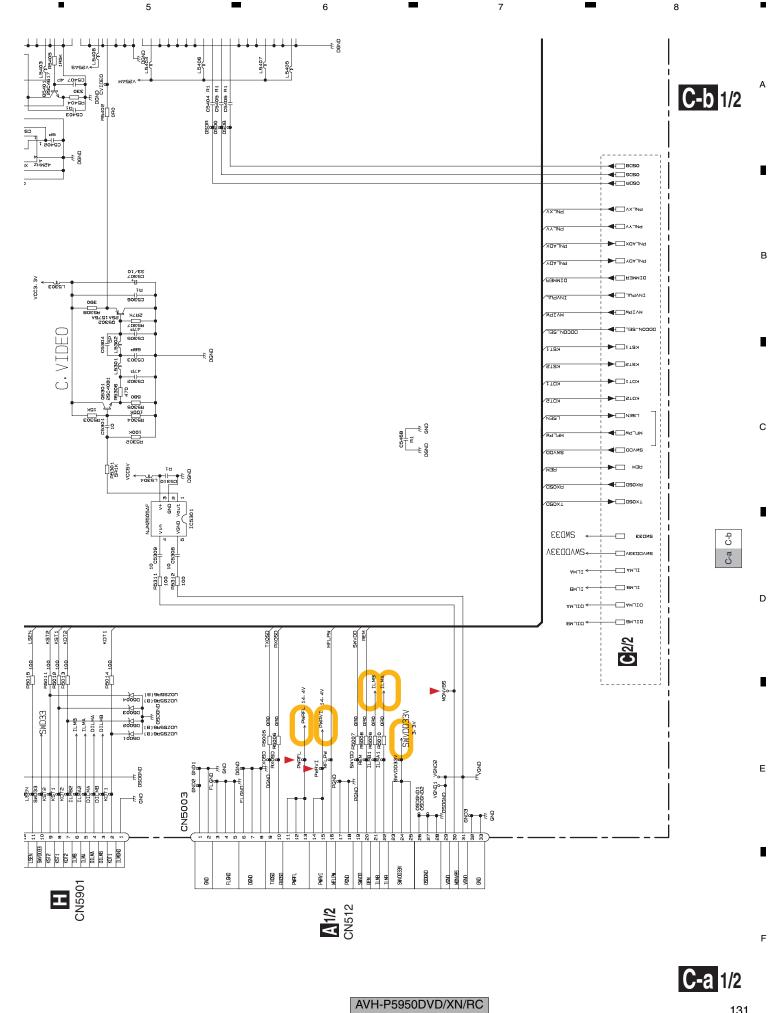
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2



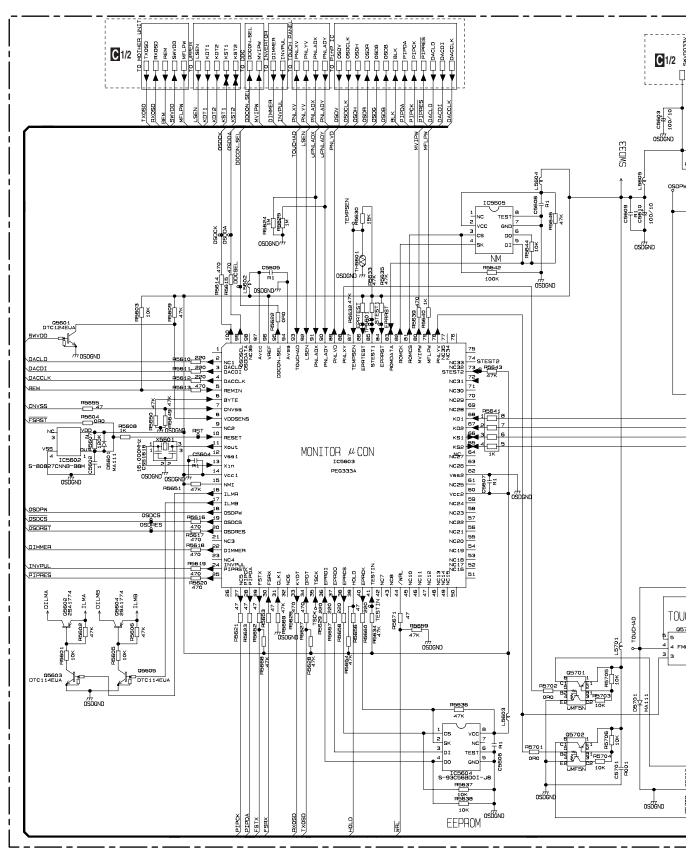


AVH-P5950DVD/XN/RC



# 10.5 MONITOR PCB(OSD & μCON PART)(GUIDE PAGE)

C-a 2/2



**C** 2/2

AVH-P5950DVD/XN/RC

C2/2 MONITOR PCB(OSD & μCON PART) **C**1/2 C5693 OSDGND Q5608 SA1797 OSDGND C5815 C5640 OSDGND S OSDGND OSDGND A11 B5871 100 5 A A10 B572 100 6 A B5873 100 7 A B873 100 7 A B817 100 8 A B B5817 100 8 A B B B5817 100 8 A B B B5817 100 8 A B B B5817 100 8 100 21 100 22 100 23 100 24 100 24 5 5 5 5 OSD ROM 100/10 c5803 C2805 OSDGND 9.6MHz KDT 1 25852 75850 74 74 KDT2 ŌE KST1 OSDDA SIN OSDCS VDD1\_1 D1 OSD IC VSYNC D3 PDC149A D5 HBLK D6 OSDAST RST VDD1\_2 CLKOUT VSS1\_3 VDD1\_3 D9 D10 VSS1\_4 VDD2\_1 TOUCH PANEL TOUCHAD Tal the A OSDGND R5855 AOSDGND C5811 1 C5812 1 F5839 1 R5849 OR0 C5704 R5709 4700P 1K 98A1774 95801 0SDGND GN C5824 100P A OSDGND ]šį A OSDGND MA 111 AOSDGND AOSDGND DGND ANALOG ¥∏898 uPNLADX OSDG ]<u>ş</u> 95876 ORO P5819R5818 0R0 150 R5823R5822 0R0 150 AOSDGND ¥Ů₩ OSDGND AOSDGND MONITOR UNIT Consists of MONITOR PCB UPPER PCB

**C** 2/2

AVH-P5950DVD/XN/RC

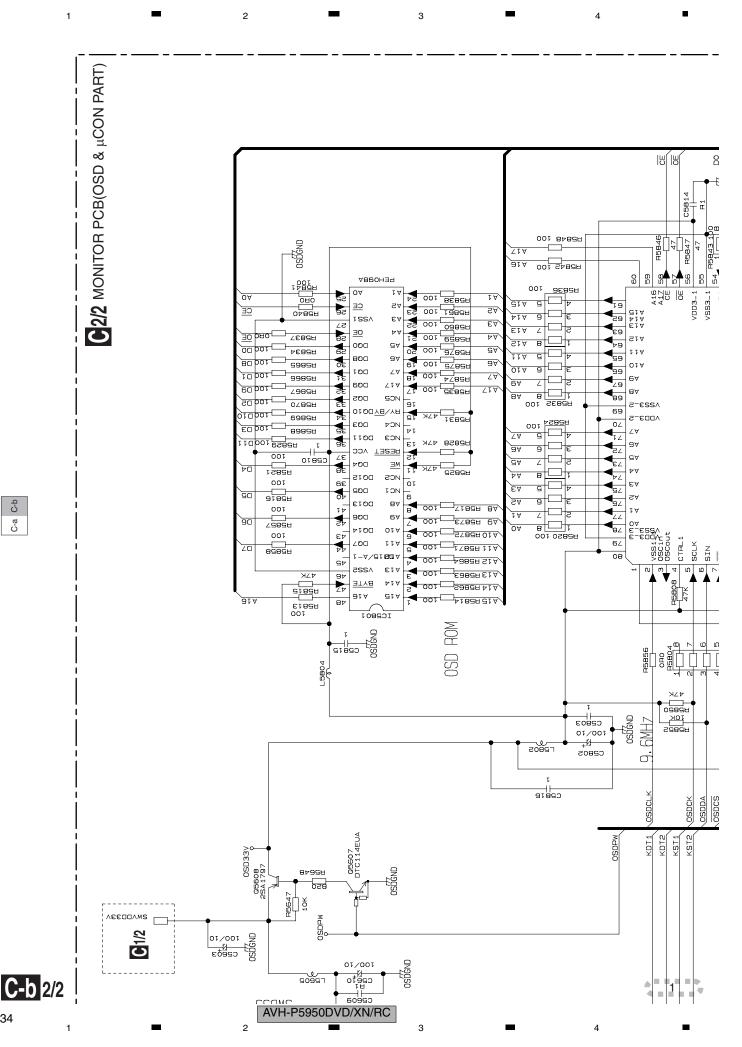
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133

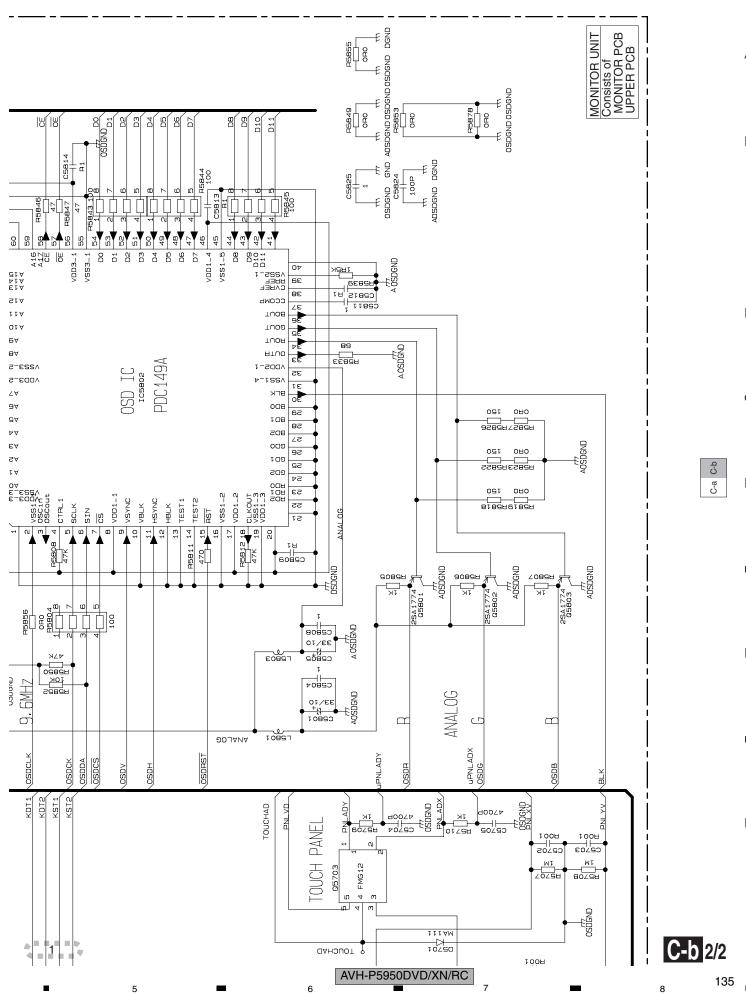
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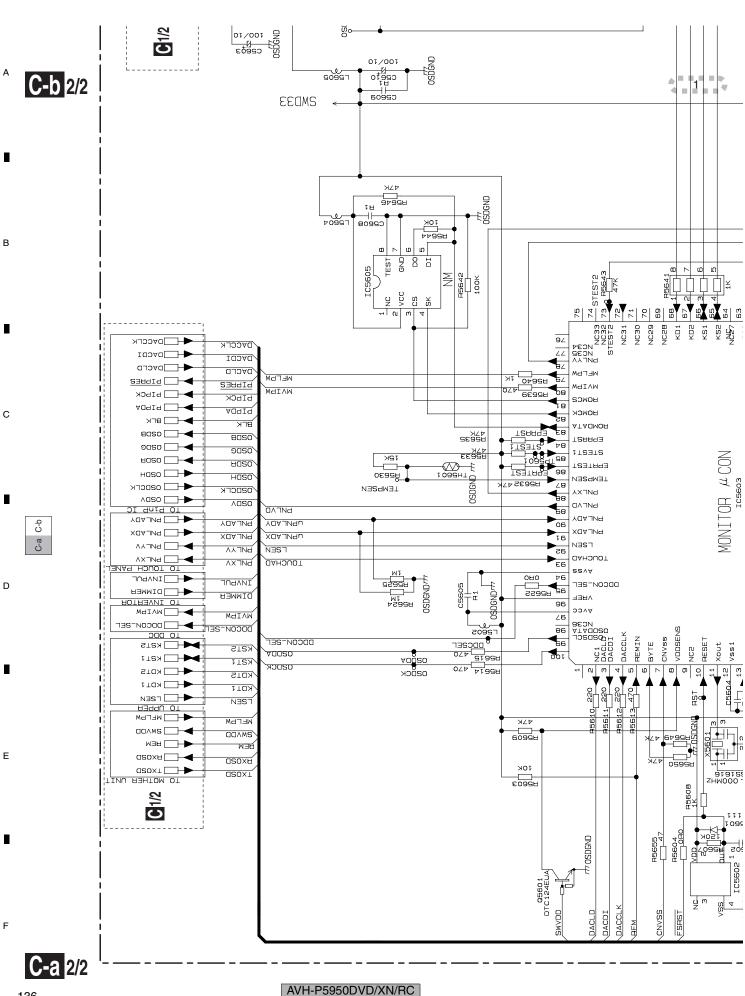
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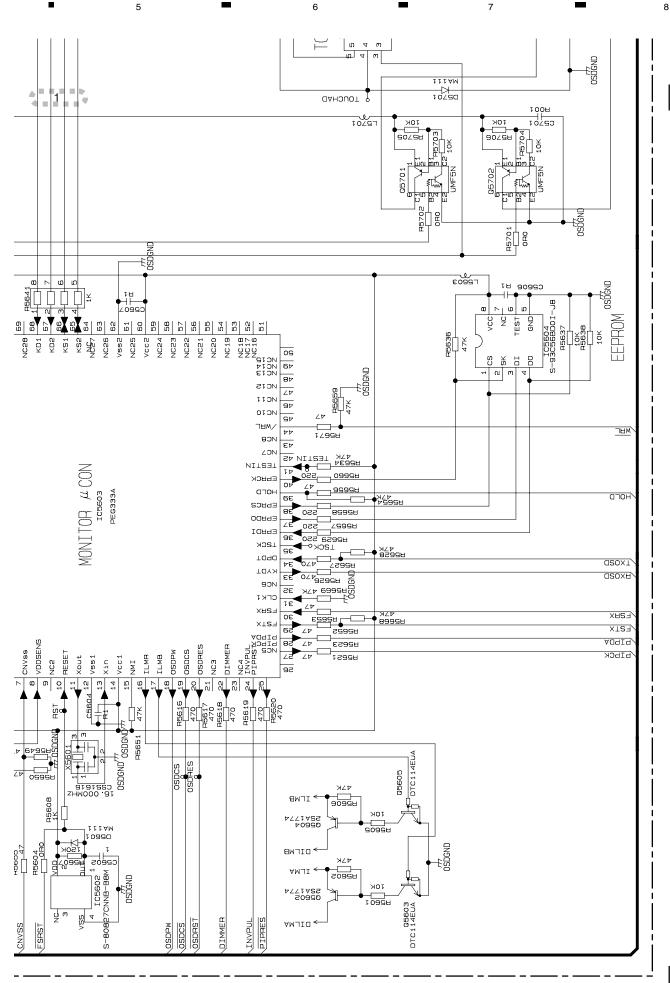
С

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C-b 2/2

В

С

C-a C-b

D

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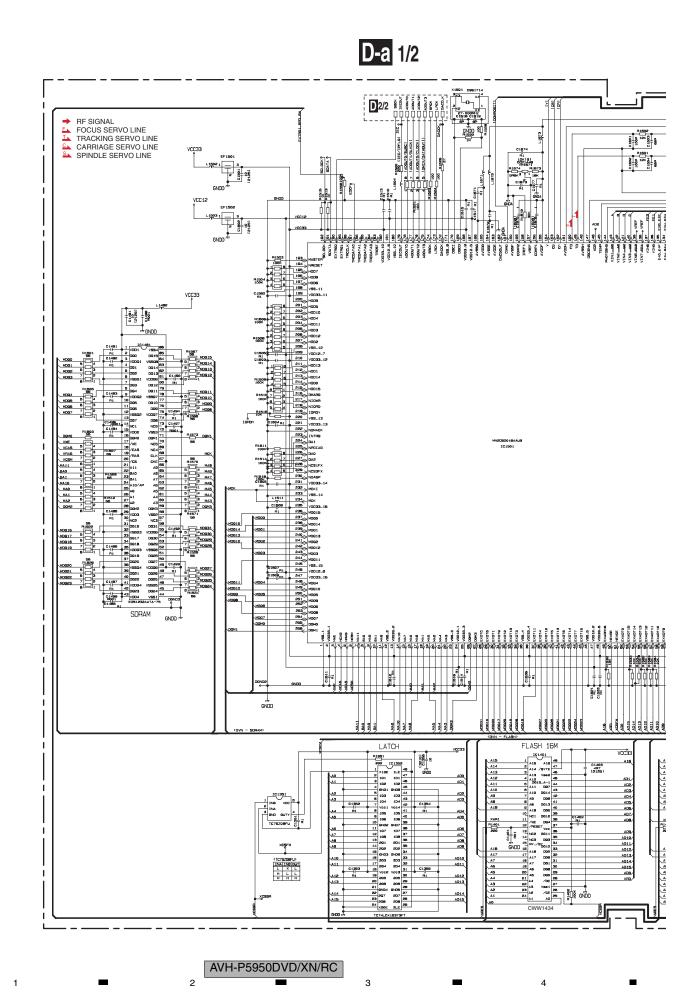
C-a 2/2

6

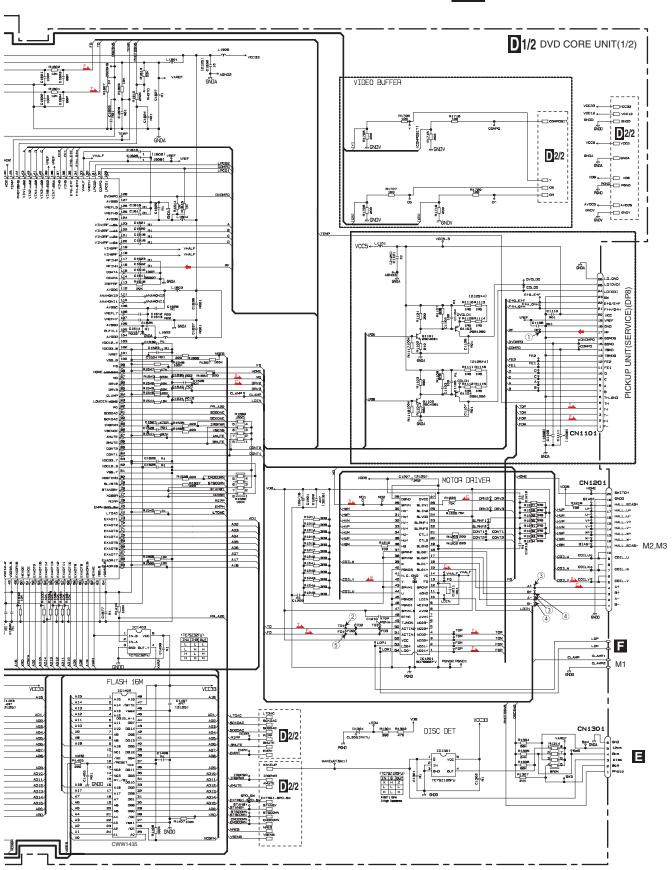
5

# 10.6 DVD CORE UNIT(1/2)(GUIDE PAGE)

**D** 1/2



D-b 1/2



D 1/2

AVH-P5950DVD/XN/RC

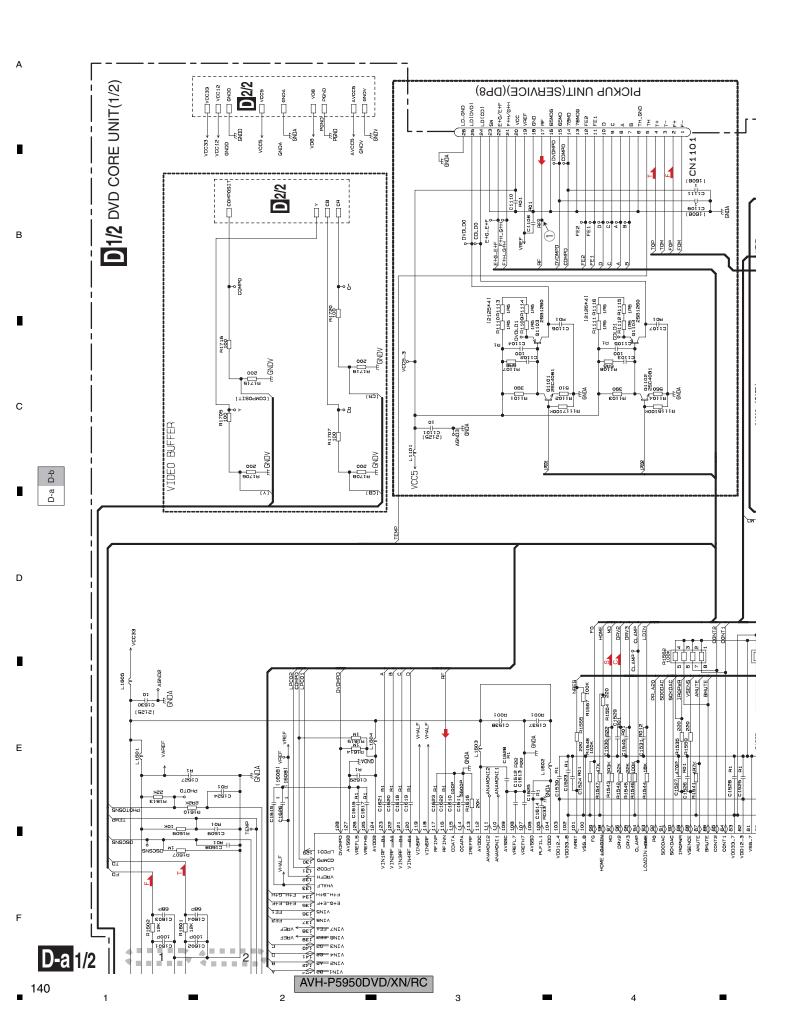
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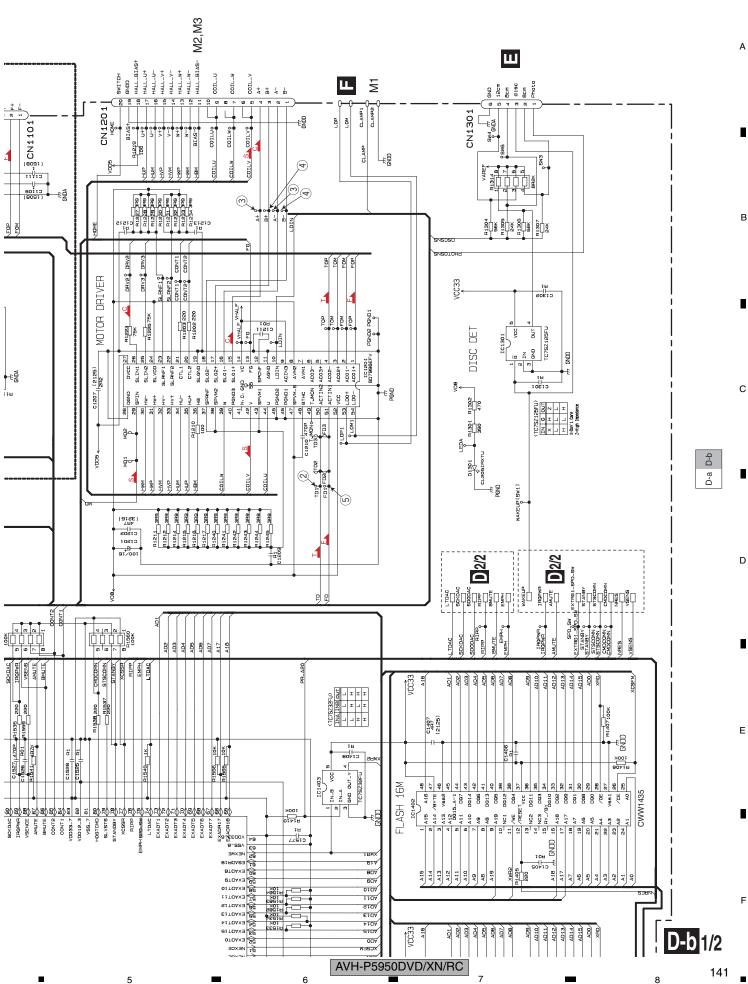
139

Е

В

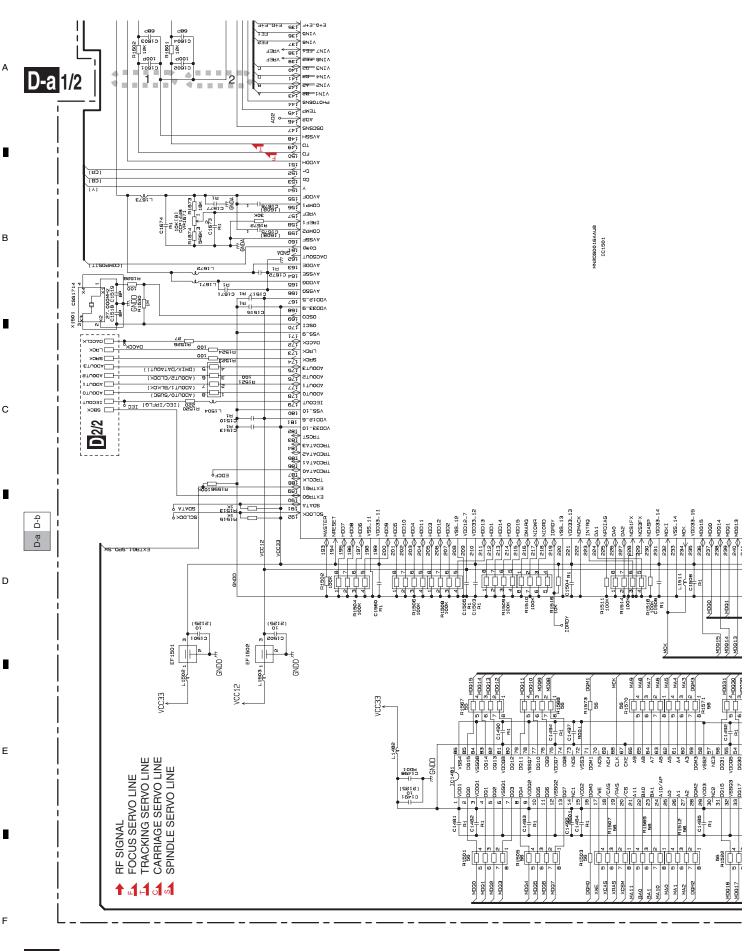
С





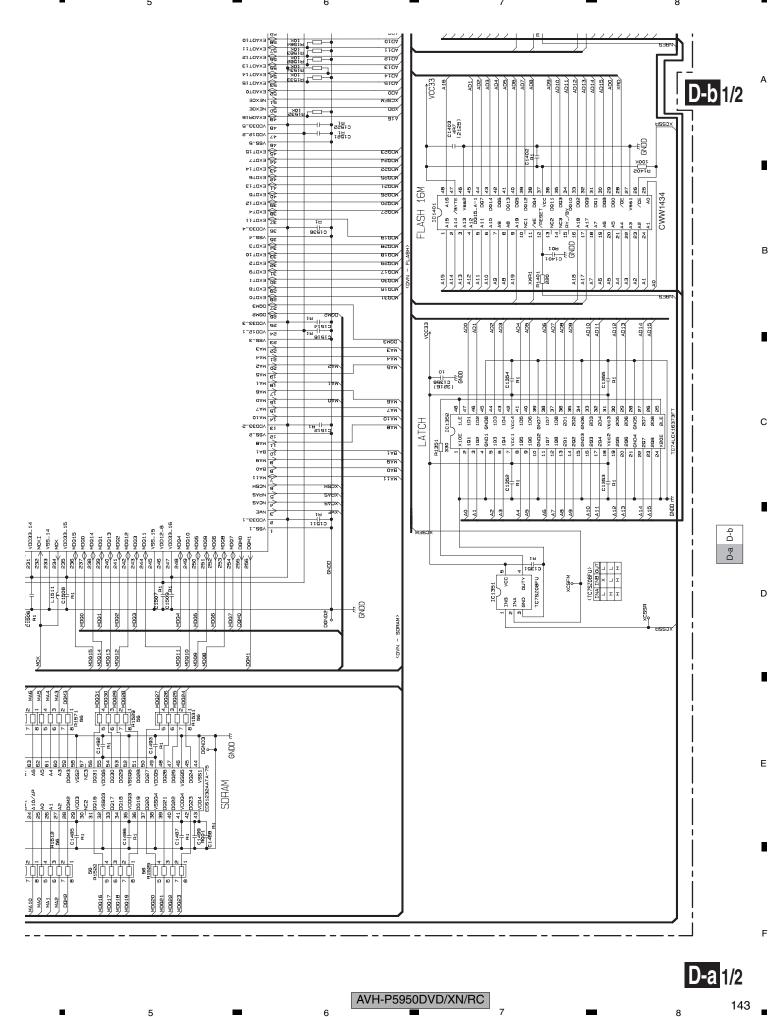
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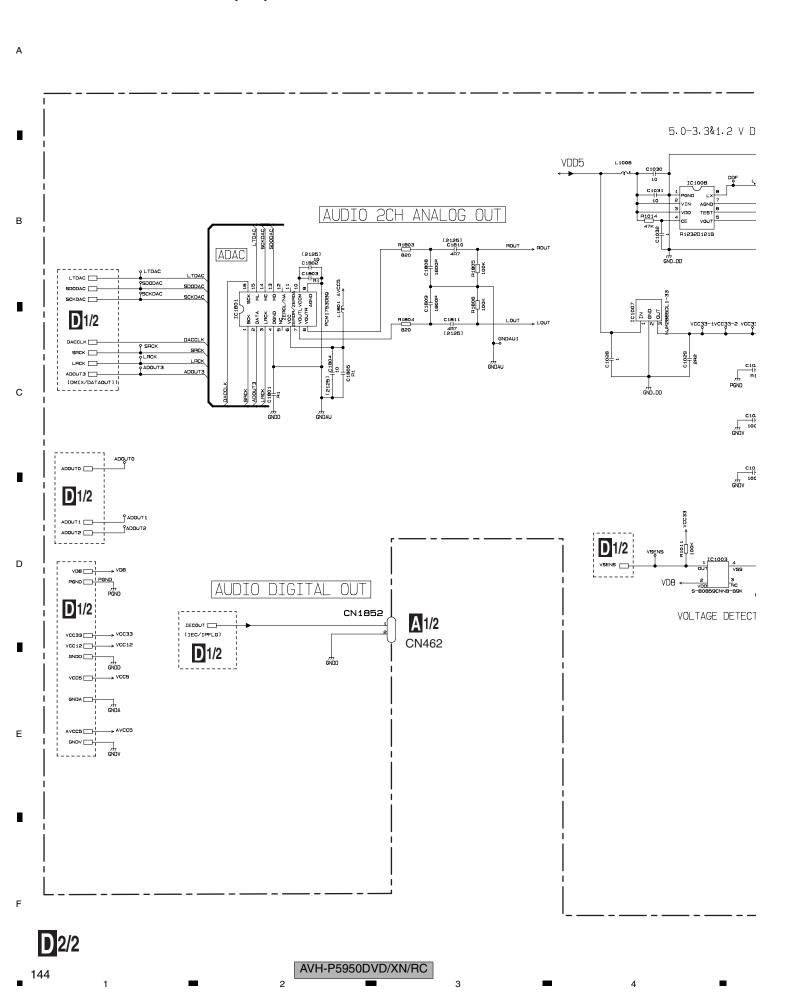
С



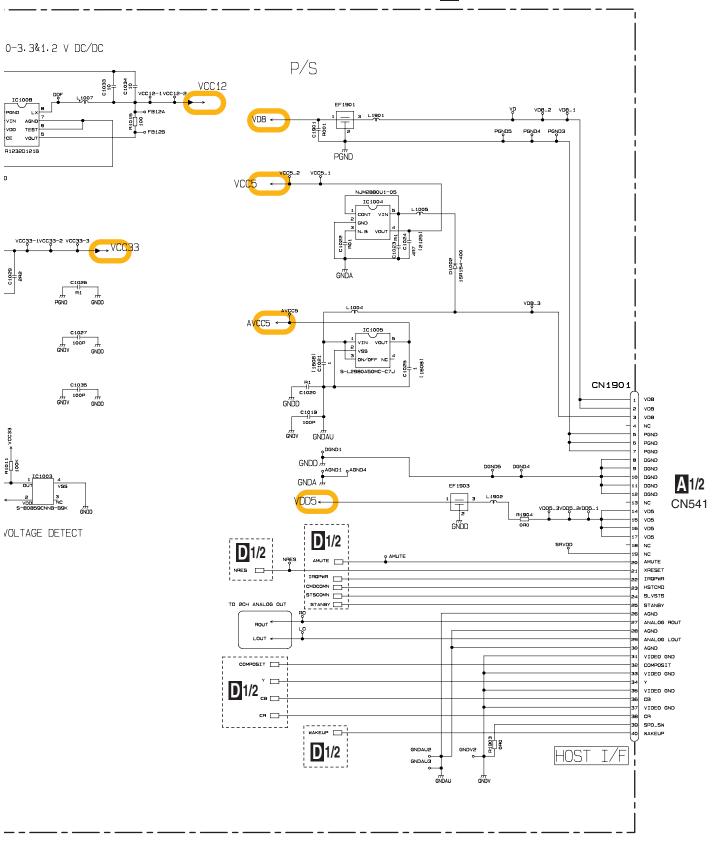
D-a 1/2

AVH-P5950DVD/XN/RC









D 2/2

AVH-P5950DVD/XN/RC

5

Ω

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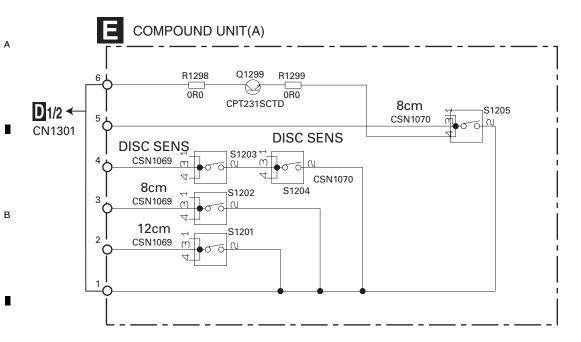
В

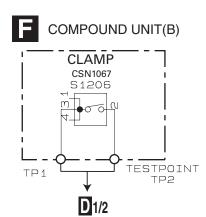
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Е

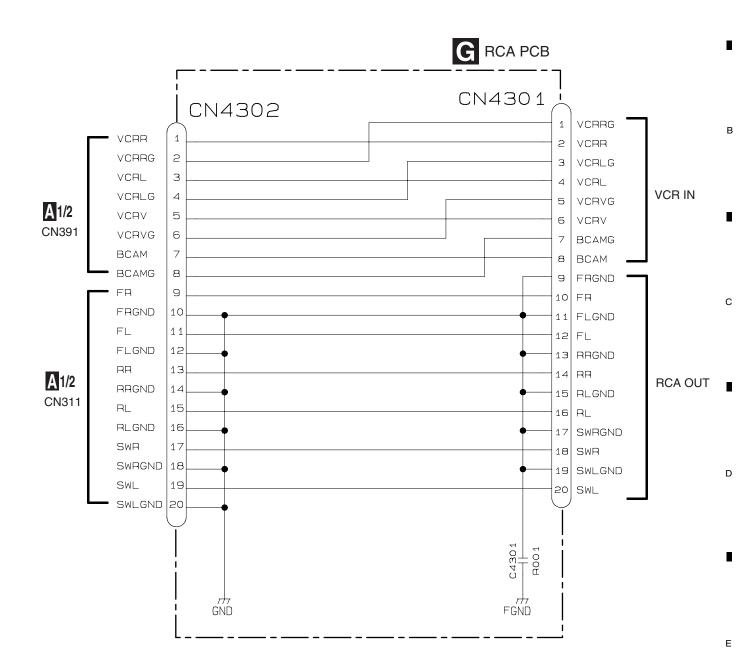
### 10.8 COMPOUND UNIT(A) AND COMPOUND UNIT(B)





AVH-P5950DVD/XN/RC

5



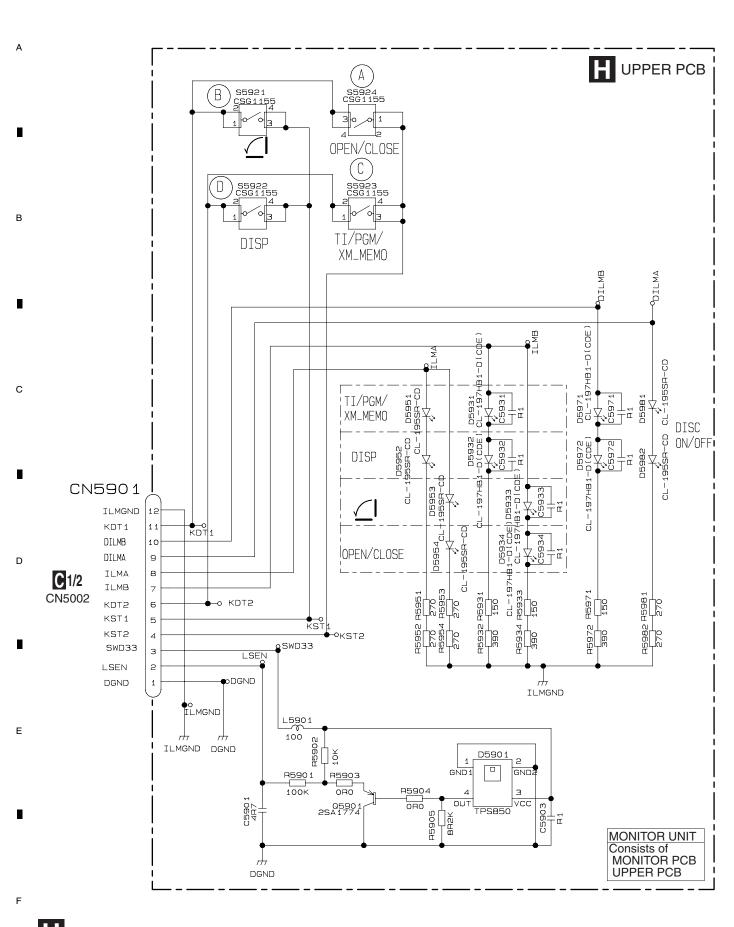
OPT/RCA UNIT Consists of RCA PCB OPT PCB

G

147

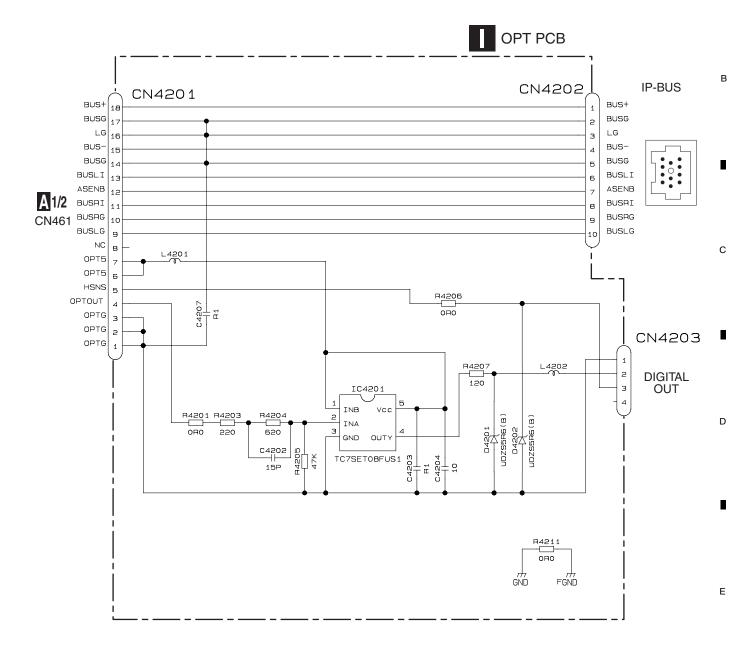
AVH-P5950DVD/XN/RC

**Ξ** Q



Li

AVH-P5950DVD/XN/RC



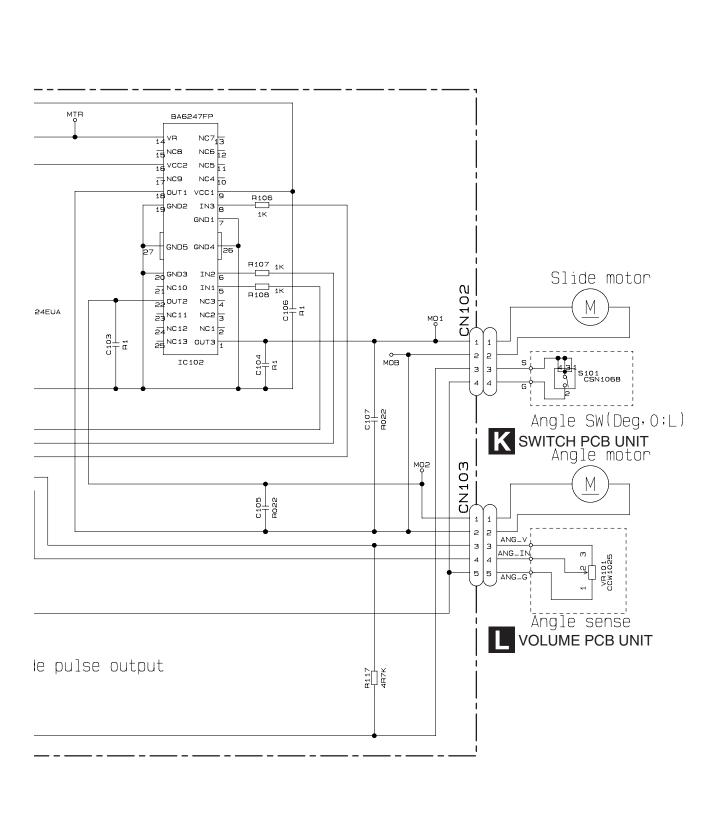
OPT/RCA UNIT Consists of RCA PCB OPT PCB

# 10.12 MAIN PCB UNIT(SERVICE), SWITCH PCB UNIT AND VOLUME PCB UNIT

Vout = Vc\*(R1+R2)/R1Vc = 1.225V(tyo)R1=5.09, R2=33k MAIN PCB UNIT(SERVICE) Vout=9.15V CN101 BAOOCCOWE CTL CTL VCC GND VOUT R105 470 Bu1 Bu2 VREF BUP BUP BUP 3 NC 4 MGND 5 MGND1 MGND2 6 MGND 6 MGND DGND C101 4 H7 4 H7 4 H7 4 H7 R101 NC 3.37 5V Q101 DTC124EUA LIFTSW 12 AGLSW MTRSL ANGLEOSW 13 MTRSEL (ANG)MTR1 15 15 мтн2 (POS)MTR2 16 MTHPW MTRS 18 18 LANGIN // MGND LIFTPUL 19 19 20 ANGLEIN IC104 vcc ЗΥ 9A ¥ 110 TC7W14FU √<u>IC103</u> F110 DGND A 1/2 CN512 Slide pulse GP2L24B P111 Lift SW(EJECT;L) R115

J

AVH-P5950DVD/XN/RC



J K L

AVH-P5950DVD/XN/RC

DVD Core Unit

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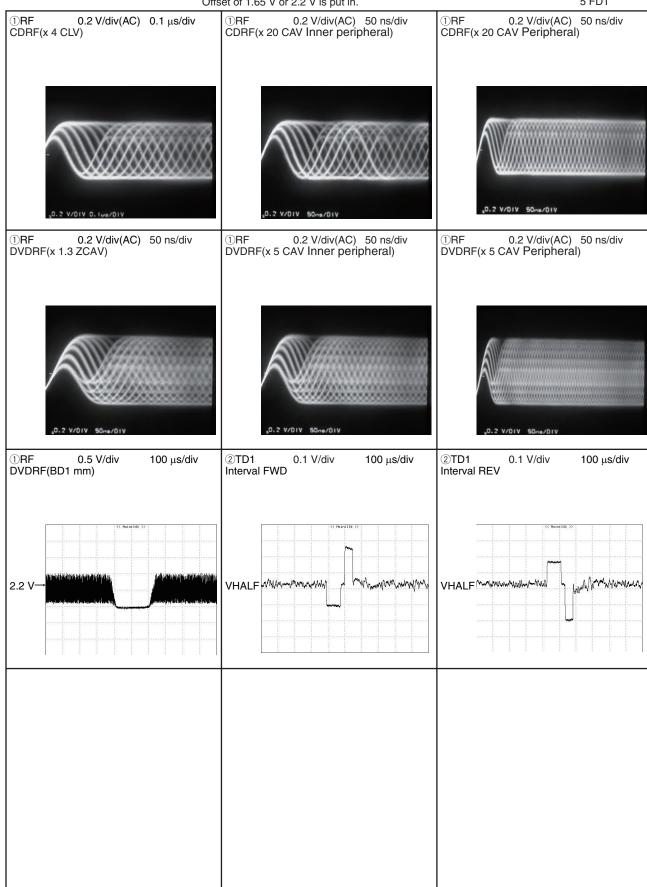
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Note:1. The encircled number denote measuring points in the circuit diagram. 2. Reference voltage: 1.65 V(TD1,FD1)(=VHALF) 2.2 V(RF)(=VREF)

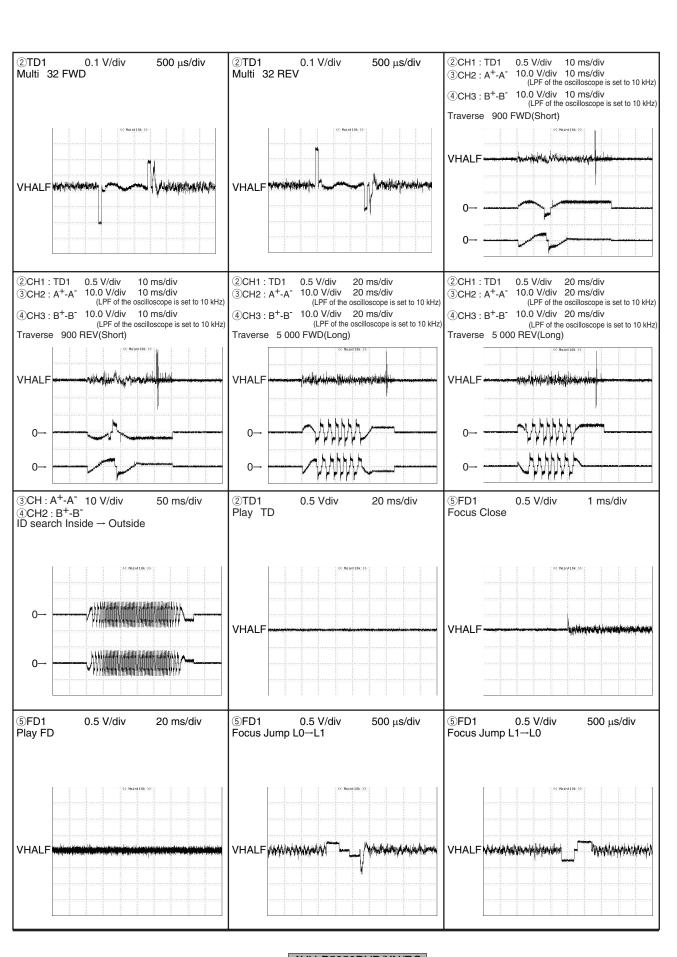
In the waveform, it is seeing on the GND standard. Offset of 1.65 V or 2.2 V is put in.

3 A+, A-4 B+, B-5 FD1

1 RF 2 TD1



AVH-P5950DVD/XN/RC



AVH-P5950DVD/XN/RC

6

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153

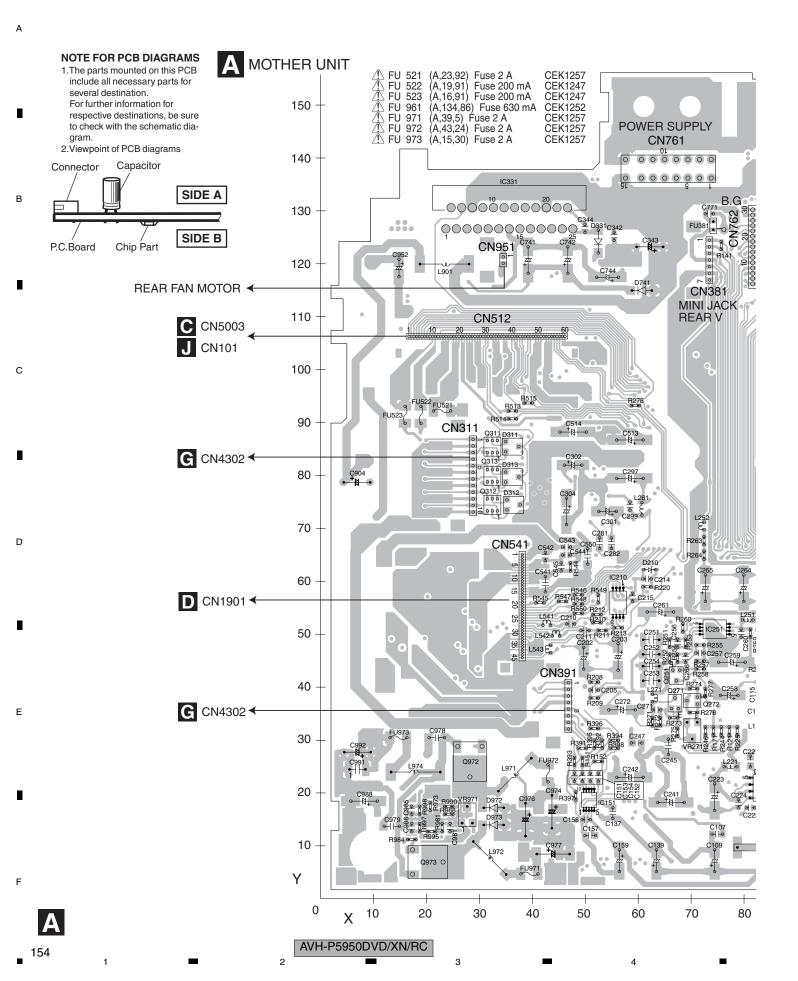
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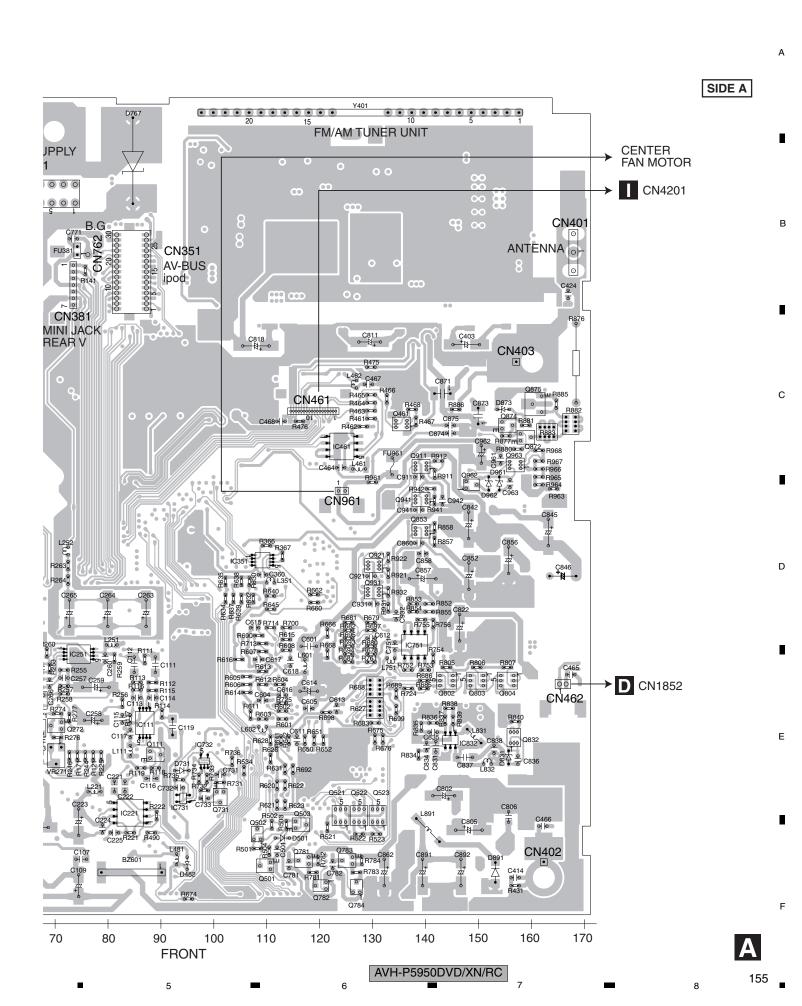
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# 11. PCB CONNECTION DIAGRAM 11.1 MOTHER UNIT





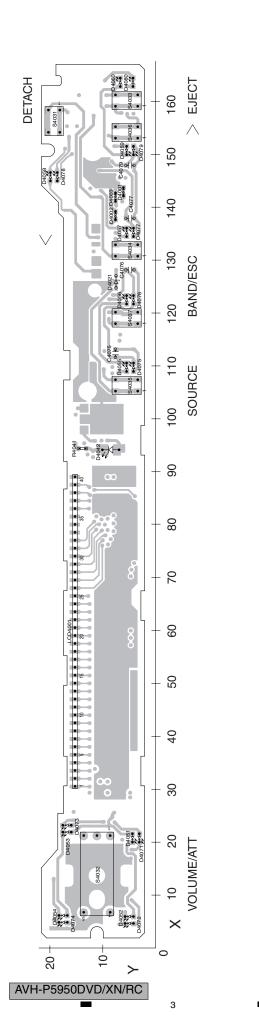
**A** MOTHER UNIT TP6216 O TP623 CN531 **B** CN4001 ← 170 130 120 100 160 150 140 110 90 AVH-P5950DVD/XN/RC

SIDE B FU 311 FU 351 FU 352 FU 761 FU 891 FU 901 FU 951 (B,18,74) Fuse 3.15 A (B,85,144) Fuse 3.15 A CEK1259 (B,79,144) Fuse 3.15 A (B,68,146) Fuse 3.15 A (B,147,12) Fuse 1.25 A CEK1259 CEK1259 150 CEK1255 (B,8,92) Fuse 1.25 A CEK1255 (B,13,113) Fuse 630 mA CEK1252 + 140 0000000 D355 D359 130 01 120 110 100 MONVBS O - 90 +80- 70 Q356 0 0 0 R355 +60+ 50900 R13 900 R10 900 R10 91 9 C228 91 9 C227 9 C392 + 40 R149 0 000 30 - 20 CN481 136 7 o | o C484 531 OTP976 10 Υ 0 0 90 80 70 60 50 40 30 20 10 Χ AVH-P5950DVD/XN/RC 157 5

# 11.2 KEYBOARD UNIT

**B** KEYBOARD UNIT

SIDE A



В

С

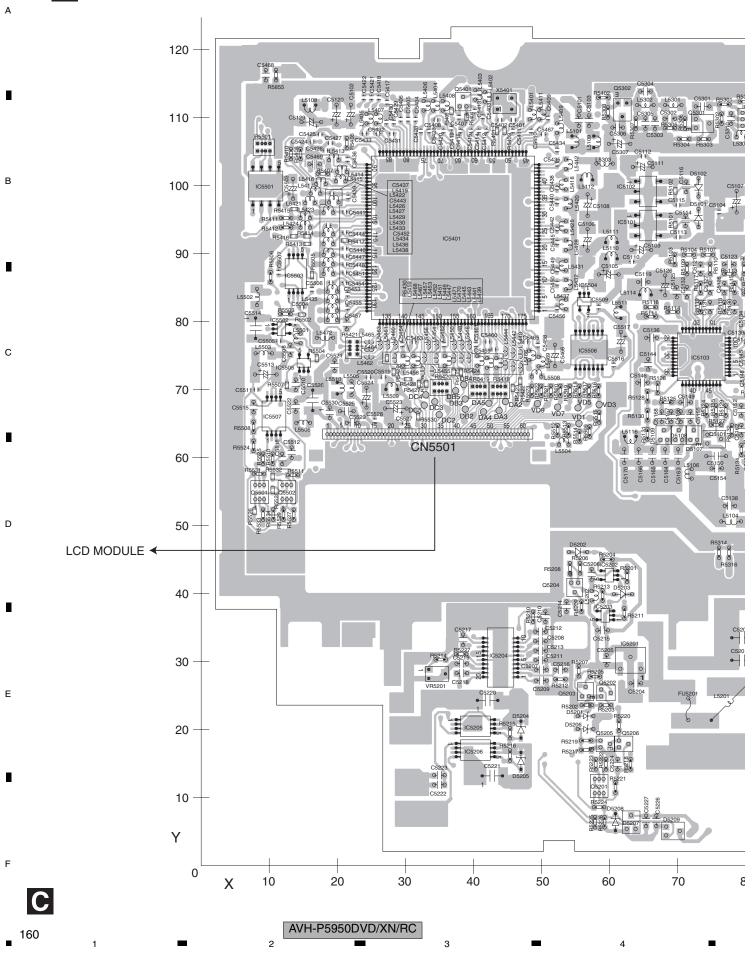
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### 11.3 MONITOR PCB

C MONITOR PCB



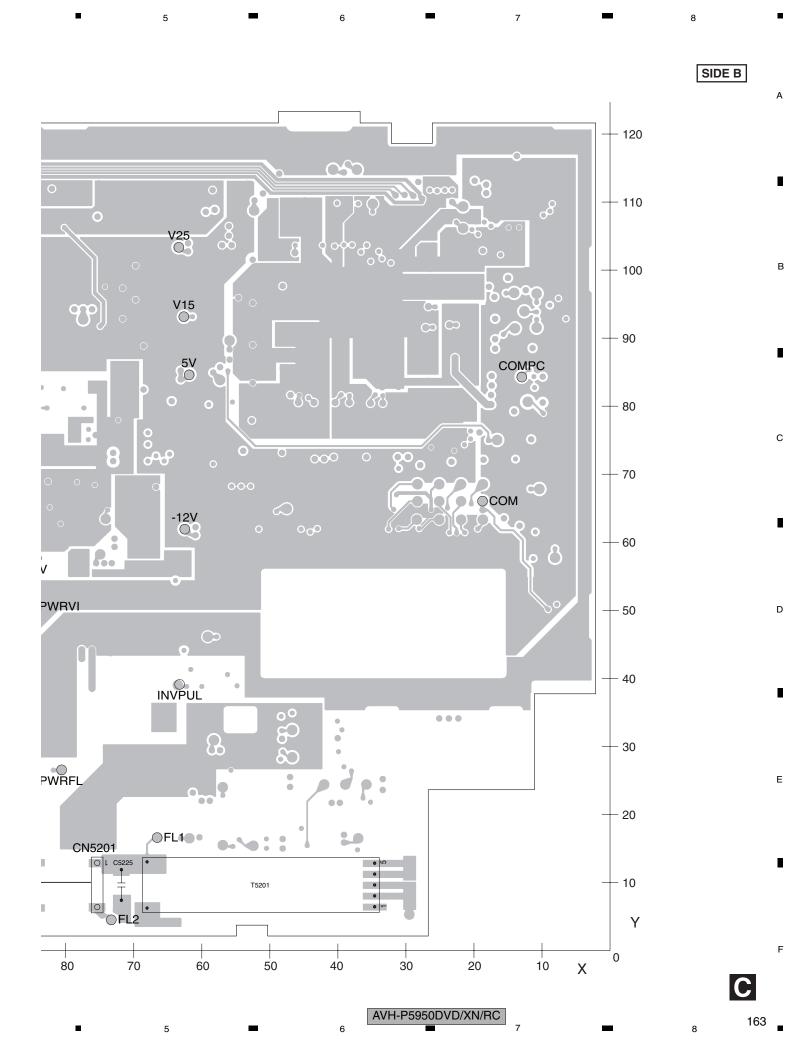
SIDE A **CN5901** CN5001 TOUCH PANEL **A** CN512 

AVH-P5950DVD/XN/RC

**C** MONITOR PCB

33V VCC8V 0 18V PWRVI 44 PWRFL CN5201 LCD MODULE ← 150 140 130 80 120 90 110 100 AVH-P5950DVD/XN/RC

C



### 11.4 DVD CORE UNIT D DVD CORE UNIT +08\*\* \$\frac{\cappa}{0} \frac{\cappa}{0} \f C1526 70 -1530 554 623 C1626 C1 $\frac{2}{1}$ C1615 R1610 C 1 6 2 4 R1607 60 – C1608<sup>C</sup>1609 R1535 C1604 R1601 C1527 PICKUP UNIT 50 -(SERVICE) M2, M3 40 -C11107F C11084F C1109 C1111 9999 L1605 ale 30-C163000 R1674 M1 <del>←</del> 20 CN1851 IC1201 10 R15150 Z CN462 0 10 20 30 40 Χ

AVH-P5950DVD/XN/RC

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SIDE A

В

С

R1713 R17148 R1721L R17162 C1703 R1701 R1702 R1710 Q1701 Α EF1901 R1705 CN541 R1715 L1701 R1706 C1705 5 C1704 C1704 R1719 R1717 → D10029 R1718 2 R1722 -R1720 \times C152 TO 0 0 CEF1903 CN190 R1805 R1806

R1805 R1806

R1805 R1806

R1805 R1806

R1806

R1806

R1806

R1806

R1806

R1806

R1806

R1806 L1902 C1807 R1535 ЭШΘ R1904 C1527 7 9 C1027 11 🖂 IC1801 • JNIT E) L1503 EF1501 1502 \$25 34 EF 1502 of 601501 eeee R1540 0 01 9 R1537 00000000000 R1566 R1565 191430 135 140 145 150 155 160 165 170 175 180 185 190 0 R1602 C1601 6 0 2 6 2 7 6 7 7 6 7 2 6 7 1 6 7 1 C1 C1 R1 C1 C1 C1603 R1673 R1584 L 1 6 0 1 L 1 6 7 3 L 1 6 7 2  $\bigcirc$ R1533 D R1534 C1673 675C1 C1676 L1671 C1e ee e C1517 C1515 R1530 R1528  $\times 1501$ R1504 0 00 0 ₽R1532 ## C1536 1868 IC1501 0000 R1506 08 4 C1514 14 C1516 17 C1516 0000 R 2 521 0000 R1508 C1510 C1513 0000 866 R 1 0000 R1510 R1509 0000 R1556 000000000 O R1514 R1517 R1518 R1511 C1511 R1513 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 245 | 250 | 255 C1560 C1505 C1503 C1504 C1506 | L1511 C1508 C1507 C1508 R1503 50 70 60 80 90

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AVH-P5950DVD/XN/RC

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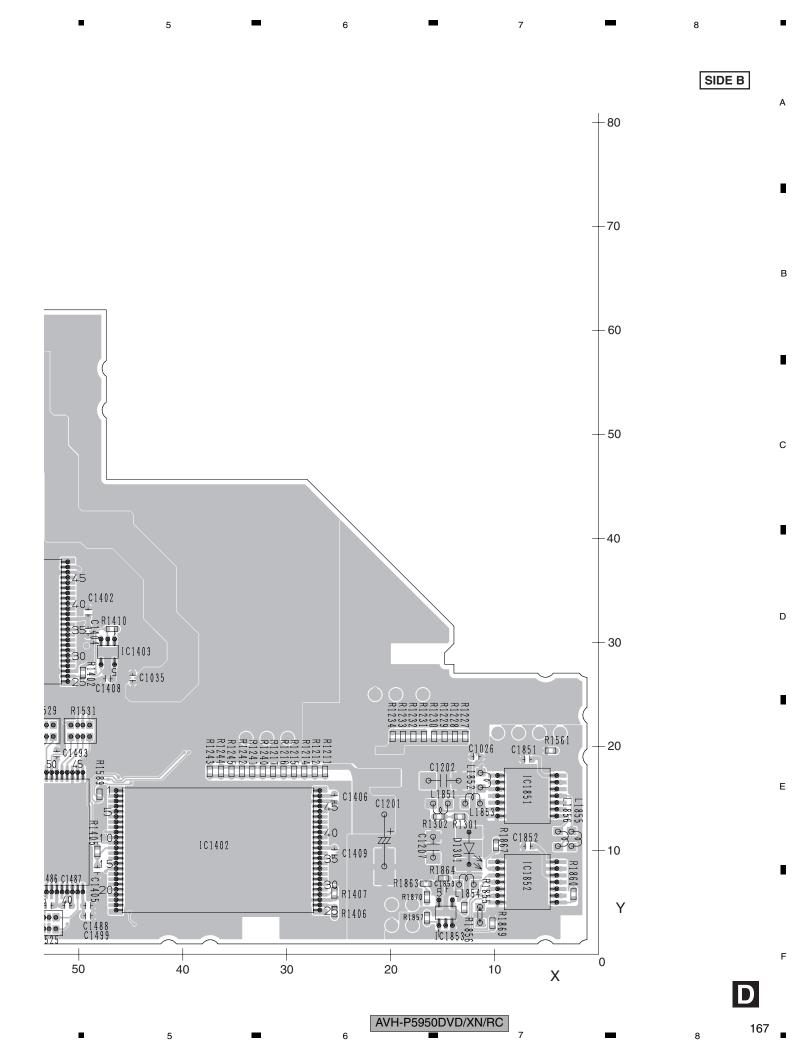
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D DVD CORE UNIT

L1006 **®** L1007 C1020 C1032 R1015 T T T o → C1033 C1028 <u>\P</u>\_ → C1034 L1101 IC1005 R1103R17080 - R1107 Φ IC1007 O 9 C1029 0 Q1102 Q100 C1023 IC1401 1C1301 1C1351 C1356 C13011 + C1 1011 | C1301 | C13 410 C1407 R1567 R1568 R1570 R1571 R1529 R1531 0000 0000 0000 0000 0000 0 00 0 85 ± 80 ± 75 ± 70 ± 65 C1353 C1352 CN1301 IC1352 000000 IC1481 目← C1355 70 60 50 90 80 AVH-P5950DVD/XN/RC

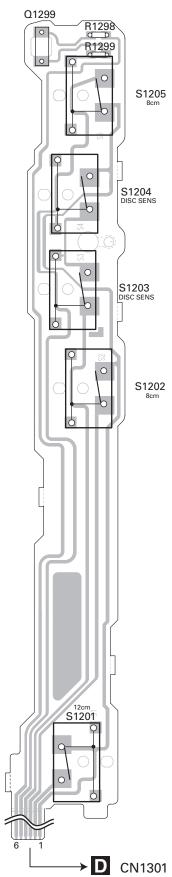
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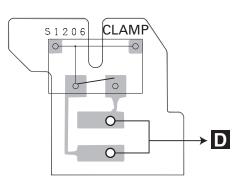


# 11.5 COMPOUND UNIT(A) AND COMPOUND UNIT(B)

E COMPOUND UNIT(A)







E F

168

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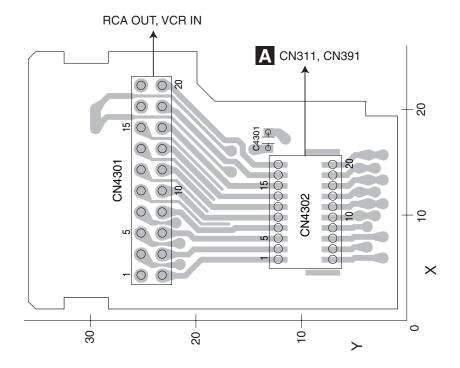
11.6 RCA PCB

G RCA PCB

SIDE A

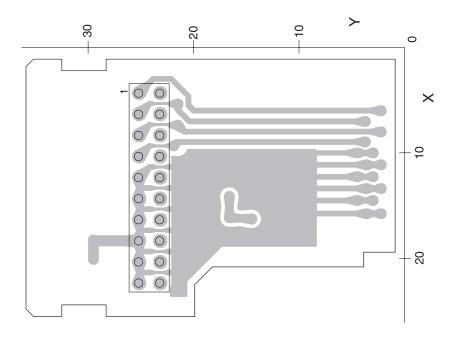
В

С



G RCA PCB

SIDE B



G

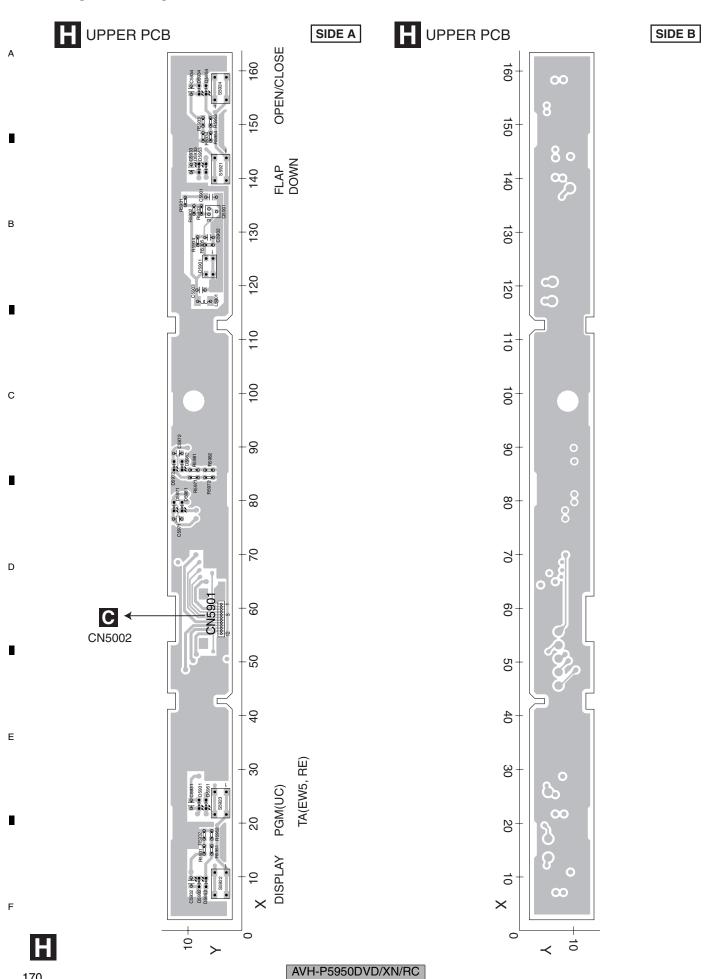
169

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AVH-P5950DVD/XN/RC

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# 11.7 UPPER PCB



11.8 OPT PCB

OPT PCB

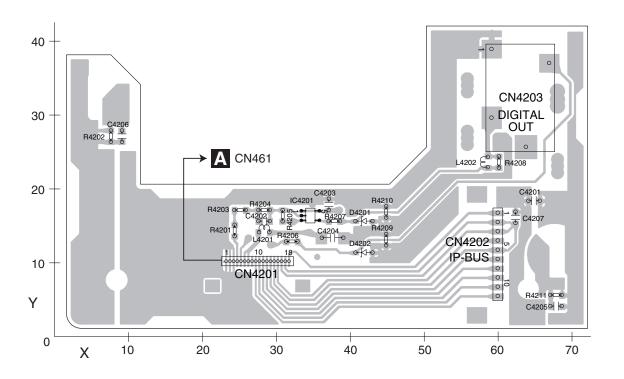
SIDE A

В

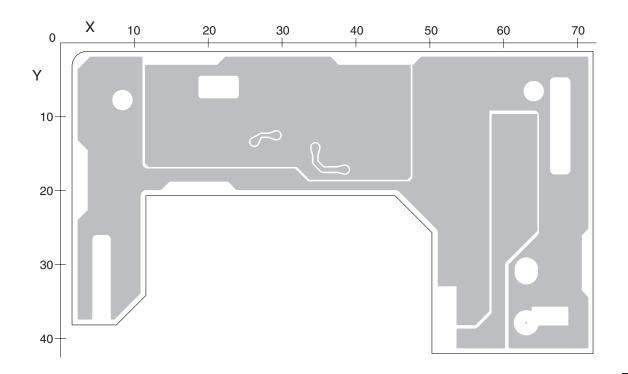
С

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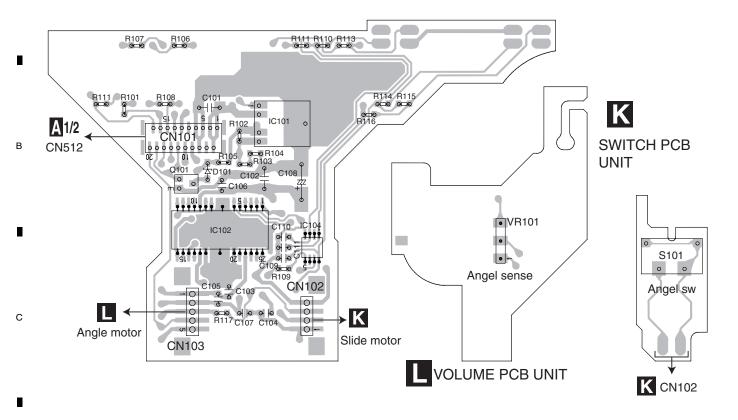
OPT PCB

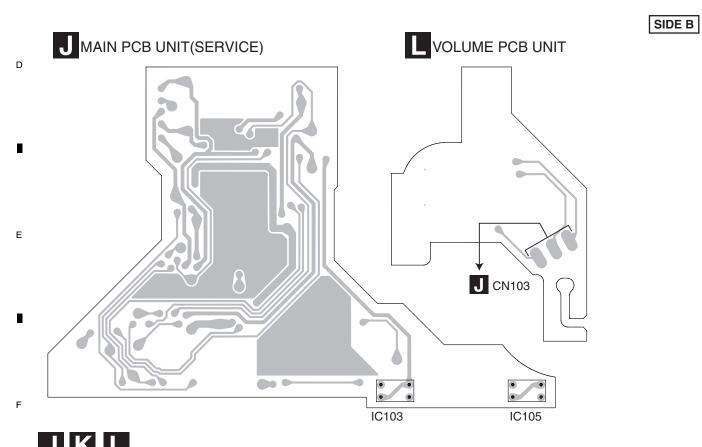


AVH-P5950DVD/XN/RC

# 11.9 MAIN PCB UNITSERVICE), SWITCH PCB UNIT AND VOLUME PCB UNIT

J MAIN PCB UNIT(SERVICE)





AVH-P5950DVD/XN/RC

# 12. ELECTRICAL PARTS LIST

#### *NOTE*:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

 $RS1/\bigcirc S\bigcirc\bigcirc\bigcirc J, RS1/\bigcirc\bigcirc S\bigcirc\bigcirc\bigcirc J$ 

Chip Capacitor (except for CQS.....)

*CKS....., CCS....., CSZS.....* 

- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

	<u>Circ</u>	uit Symbol and No.	Part No.
Circuit Symbol and No. Part No.	IC 101	(B,62,15) IC	NJM2794RB2
Unit Number: (RC,RD,RI)	IC 111	(A,87,38) IC	NJM2136V
• • • •	IC 131	(B,53,15) IC	NJM2794RB2
Unit Name : Mother Unit	IC 141	(B,78,40) IC	NJM2136V
Unit Number:	IC 151	(A,51,19) IC	NJM2794RB2
	IC 161	(B,28,36) IC	NJM2136V
Unit Name : Keyboard Unit	IC 181	(B,32,45) IC	NJM2136V
Unit Number: CWN2330	IC 191	(B,26,54) IC	NJM2136V
	IC 192	(B,29,61) IC	SM5304AV
Unit Name : Monitor Unit	IC 221	(A,84,21) IC	NJM2233BM
Unit Number: YWX5005	IC 231	(B,87,40) IC	NJM2136V
Unit Name : DVD Core Unit	IC 241	(B,61,40) IC	AN15883A
Office Name : DVD Core Office	IC 251	(A,74,51) IC	NJM2136V
Unit Number: CWX3154	IC 252	(B,66,55) IC	BA7623F
	IC 281	(B,51,78) IC	PML017A
Unit Name : Compound Unit(A)	IC 331	(A,36,132) IC	PAL007C
Unit Number: CWX3394	IC 351	(A,109,69) IC	TC7WH08FU
Helt Name - Oammann d Helt/D)	IC 401	(B,104,138) IC	NJM2794RB2
Unit Name : Compound Unit(B)	IC 461	(A,124,90) IC	HA12241FP
Unit Number:	IC 601	(B,119,47) IC	PE5597A
Unit Name : OPT/RCA Unit	IC 731	(A,94,24) IC	S-80827CNNB-B8M
	IC 732	(A,98,31) L-MOS And Gate	
Unit Number: CXX2316	IC 801	(B,154,24) IC	BA00DD0WHFP
Unit Name . Main DOD Unit/CED\/ICE\	IC 811 IC 812	(B,125,129) IC (B,112,126) IC	NJM2391DL1-33 BA00DD0WHFP
Unit Name : Main PCB Unit(SERVICE)	10 612	(B,112,120) 10	BAUUDDUWIIFF
Unit Number: CZW5029	IC 821	(B,152,49) IC	BA00DD0WHFP
Unit Name : Switch PCB Unit	IC 831	(B,145,36) IC	S-812C56AUA-C3K
Offic Name . Switch PCB Offic	IC 832	(A,145,35) IC	LT3461AES6
Unit Number: CZW5028	IC 841 IC 851	(B,136,88) IC (B,142,54) IC	S-812C33AUA-C2N S-812C50AUA-C3E
Unit Name : Volume PCB Unit	10 001	(D, 142,34) 10	3-012030A0A-03L
Office Name : Volume PCB Office	IC 852	(B,140,69) Regulator	BA00CC0WFP
	IC 861	(B,134,20) IC	BA00DD0WHFP
	IC 971	(B,21,16) IC	AN8011S
	Q 111	(A,89,32) Transistor	2SC4081
Δ	Q 141	(B,77,34) Transistor	2SC4081
	Q 161	(B,22,38) Transistor	2SC4081
Unit Number: (RC,RD,RI)	Q 181	(B,25,45) Transistor	2SC4081
Unit Name : Mother Unit	Q 191	(B,20,55) Transistor	2SC4081
	Q 231	(B,87,34) Transistor	2SC4081
<u>MISCELLANEOUS</u>	Q 251	(A,67,42) Transistor	2SC4081
	Q 271	(A,67,37) Transistor	2SC4081

			_		_			_		
		1 Iit Symbo	ol and No.	Part No	<b>—</b> D.			₃ cuit Symbol and	No.	4 Part No.
Q 2		-	Chip Transistor	2SA1576A	<del></del>	Q	953	(B,25,107) Digital		
Q 3		(A,32,85)		IMH23			954	(B,20,115) Transis		UMF5N
Q 3	12	(A,32,74)	Transistor	IMH23			961	(B,154,85) Transis	stor	2SD1760F5
Q 3	13	(A,32,80)	Transistor	IMH23		Q	962	(A,149,83) Digital	Transisto	r DTC114EUA
Q 33		(B,54,101)		IMD3A			963	(A,157,87) Transis		UMF5N
Q 3			Chip Transistor			Q	972	(A,28,24) Transist		2SJ529S
Q 3			Chip Transistor				973	(A,22,7) Transisto		2SJ529S
Q 35 Q 35			Chip Digital Tran Chip Digital Tran				974 975	(B,21,26) Transisto (B,19,7) Transisto		2SC4097 2SC4097
Q 3	34	,				Q	975	(B, 19,7) Transisto	1	2304097
Q 3! Q 3!		(B,88,100) (B,83,62)	Digital Transisto	r DTC144E IMD2A	EUA		976 131	(B,28,13) Chip Tra (B,76,115) Diode	ansistor	DTC124EUA MALS068X
Q 3		(B,83,118)		IMH23			132	(B,78,118) Diode		MALS068X
Q 46		(A,135,94)		UMF23N			151	(B,49,31) Diode		MALS068X
Q 50				DTA114EU	JA		152	(B,51,33) Diode		MALS068X
0 50	00	/A 100 17\	Digital Transistor	- DTC1445	=114	Ь	161	(P. 40.24) Diodo		MALCOGOV
Q 50 Q 50		(A,108,17) (A,116,19)	Digital Transistor	2SC4081	LUA		161 181	(B,40,34) Diode (B,44,38) Diode		MALS068X MALS068X
		,						(B,44,38) Diode (A,36,85) Diode		DAP202K
Q 52		(A,124,20)		IMD3A			311			
Q 52 Q 52		(A,127,20) (A,131,20)		IMD3A IMD3A			312 313	(A,36,74) Diode (A,36,80) Diode		DAP202K DAP202K
		,						,		
Q 54		(B,55,60)		UMD3N			331	(A,52,124) Diode		S1G-6904G2F
Q 54		(B,51,54)		IMH23			332	(B,66,153) Diode		S1G-6904G2F
Q 73		(A,101,24)		2SC4081			351	(B,90,117) Diode		MALS068X
Q 74		(B,25,113) (B,51,112)		IMD2A DTC124EU	JA		352 353	(B,86,115) Diode (B,88,117) Diode		MALS068X MALS068X
			·					,		
Q 74		(B,47,114)		2SC4081			354	(B,88,120) Diode		MALS068X
Q 74			Digital Transistor				355	(B,83,130) Diode		MALS068X
Q 76			Chip Transistor				356	(B,79,115) Diode		MALS068X
Q 76			Chip Transistor				357	(B,78,121) Diode		MALS068X
Q 76	03	(0,04,104)	Chip Transistor	∠5A15/6A		ט	358	(B,82,122) Diode		MALS068X
Q 76		(B,60,109)		UMX1N			359	(B,81,130) Diode		MALS068X
Q 76		(B,77,103)		2SC4081			381	(B,78,119) Diode		MALS068X
Q 78		(A,117,12)		2SA1577			481	(B,108,27) Diode		UMZ6R8EN
Q 78		(A,120,7) I (A,125,12)	Digital Transistor Transistor	DTC144EU 2SA1577	JA		482 483	(A,95,11) Diode (B,80,27) Diode N	letwork	UDZS5R6(B) DA204U
		,						, , ,		
Q 78			Digital Transistor		JA		484	(B,111,20) Diode		UMZ6R8EN
Q 80		(B,143,23)		2SD1767			485	(B,105,27) Diode	Network	DA204U
Q 80		(A,144,46)		IMD3A			501	(A,113,16) Diode		1SS355
Q 80		(A,150,46) (A,155,46)		IMD3A IMD3A			541 731	(B,54,57) Diode (A,94,29) Diode		DAP202U 1SS355
		, , ,								
Q 83		(B,157,36)		2SD1767			741 742	(A,61,115) Diode		RSX201L-30
Q 83		(A,157,35)		UMD3N	5		742 743	(B,50,109) Diode		DAN202U
Q 84 Q 84		(B,142,85) (B,156,76)		2SB1184F5 2SD1767	J		743 744	(B,47,109) Diode (B,44,109) Diode		DAN202U 1SS355
Q 8		(B, 156, 76) (B, 154, 61)		2SB1184F	5		744 745	(B,44,109) Diode (B,43,116) Diode		UDZS8R2(B)
O 0'	52	(A 120 74)	Transistor	LIMEGON		Г.	761	(R 70 100) Died-		
Q 85 Q 87		(A,139,74) (B,155,95)		UMF23N 2SA2060			761 762	(B,70,109) Diode (B,64,108) Diode		DAN202U DAN202U
Q 87		(A,159,92)		2SC4081			762 764	(B,55,116) Diode		1SS355
Q 87		,	Chip Transistor				764 765	(B,57,116) Diode		HZU7L(C3)
Q 8			Chip Transistor				766	(B,60,115) Diode		HZU7L(C3)
0.00	75	(A 160.00\	Transistor	26 4 2060		Г.	767	(A 95 144) Diod-		EKD044
Q 87		(A,160,98)	Transistor Chip Transistor	2SA2060 DTC114EU	IΔ		767 768	(A,85,144) Diode (B,77,108) Diode		5KP24A
Q 89 Q 89		,	•		DA.			, , ,		UDZS6R8(B)
Q 90		(B,148,8) (B 15.85) (	ransistor Chip Transistor	2SB1189 DTC114EU	IΔ		801 811	(B,142,28) Diode (B,115,134) Diode		UDZS5R6(B) 1SR154-400
Q 90		(B, 15,85) (B, 11,102)	•	2SA1615-Z			811 812	(B,115,134) Diode (B,109,137) Diode		1SR154-400 1SR154-400
0.0	11	/A 100 00\	Transistar	LIMEOON				(D 100 104) Division		10D1E4 400
Q 9		(A,139,86)		UMF23N			813 81 <i>4</i>	(B,109,134) Diode		1SR154-400
Q 92 Q 93		(A,130,68) (A,130,63)		UMF23N UMF23N			814 831	(B,102,120) Diode (A,156,31) Diode	7	1SR154-400 HZU5R6(B2)
Q 94		(A, 130, 63) (A, 139, 80)		UMF23N UMF23N			831 841	(A,156,31) Diode (B,149,75) Diode		1SR154-400
Q 9		(B,15,121)		2SD1760F	5		842	(B,149,75) Diode (B,155,72) Diode		UDZS18(B)
		, , , ,						, , ,		
Q 9	5∠	(□,∠5,105)	Digital Transistor	DIC114E			873 BC	(A,155,97) Diode		UDZS16(B)
1		1	_		AVH-P5950DVD/	VIN/				4

	5	6			7	8
Circ	cuit Symbol and No.	Part No.		<u>Circ</u>	uit Symbol and No.	<u>Part No.</u>
D 874	(B,139,98) Diode	MALS068X		<b>∴</b> FU352	(B,79,144) Fuse 3.15 A	CEK1259
D 891	(A,153,10) Diode	RSX201L-30		FU521	(A,23,92) Fuse 2 A	CEK1257
D 951	(B,20,106) Diode	HZU9R1(B2)		<b>∴</b> FU522	(A,19,91) Fuse 200 mA	CEK1247
D 952	(B,20,108) Diode	HZU6R8(B3)		<b>∴</b> FU523	(A,16,91) Fuse 200 mA	CEK1247
D 932	(B,20,100) Diode	11200110(D3)		<u>::</u> \1 0323	(A, 10,91) 1 use 200 IIIA	OLK1247
D 953	(B,20,110) Diode	HZU8R2(B2)		<b></b> £FU761	(B,68,146) Fuse 3.15 A	CEK1259
D 961	(A,154,83) Diode	HZU7R5(B2)		<b></b> FU891	(B,147,12) Fuse 1.25 A	CEK1255
D 962	(A,152,83) Diode	HZU6R8(B3)		<b></b> FU901	(B,8,92) Fuse 1.25 A	CEK1255
D 902 D 972	(A,33,17) Diode	RSX201L-30		<b></b> FU951	(B,13,113) Fuse 630 mA	CEK1253 CEK1252
D 972	(A,33,14) Diode	RSX201L-30		<b>∴</b> FU961	(A,134,86) Fuse 630 mA	CEK1252
D 973	(A,55,14) Diode	TIONZUTE-00		<u></u> 1 0301	(A, 134,00) 1 use 030 IIIA	OLK 1232
D 974	(B,18,24) Diode	MA111		<b></b> £FU971	(A,39,5) Fuse 2 A	CEK1257
D 975	(B,16,8) Diode	MA111		<b>⚠</b> FU972	(A,43,24) Fuse 2 A	CEK1257
D 976	(B,10,35) Diode	RSX201L-30		<b>⚠</b> FU973	(A,15,30) Fuse 2 A	CEK1257
D 977	(B,13,35) Diode	RSX201L-30		BZ601	(A,84,10) Buzzer	CPV1063
ZNR401	(B,161,123) Surge Protect			B2001	(71,04,10) Buzzer	G1 V 1000
21111101	(B,101,120) Guige 1 10100			RESISTO	RS	
L 111	(A,84,33) Chip Ferrite Be	ad CTF1300		<u>nesis i o</u>	<u>no</u>	
L 141	(B,81,33) Chip Ferrite Be			D 101	(D E0 11)	DC1/16C0001
L 161	(B,19,43) Chip Ferrite Be			R 101	(B,59,11)	RS1/16S223J
L 181	(B,19,46) Chip Ferrite Be			R 102	(B,64,11)	RS1/16S223J
L 191	(B,15,54) Chip Ferrite Be			R 105	(B,50,41)	RS1/16S0R0J
L 101	(B, 10,04) Omp 1 ome Bo	ad 011 1000		R 106	(B,50,43)	RS1/16S0R0J
L 192	(B,14,58) Chip Ferrite Be	ad CTE1300		R 112	(A,88,46)	RS1/16S472J
L 221	(A,77,25) Inductor	LCKBW100K2520		D 440	(4.05.46)	DC4/4004704
L 231	(B,93,34) Chip Ferrite Be			R 113	(A,85,46)	RS1/16S472J
L 241	(B,60,24) Chip Coil	LCTAW100J2520		R 114	(A,90,40)	RS1/16S101J
L 242	(B,57,24) Chip Coil	LCTAW10032520 LCTAW100J2520		R 115	(A,88,44)	RS1/16S472J
L 272	(B,37,24) Onip Con	LOTAVV10002020		R 116	(A,85,44)	RS1/16S472J
L 251	(A,81,53) Chip Ferrite Be	nd CTE1200		R 117	(A,84,39)	RS1/16S102J
L 252	(A,72,70) Inductor	CTF1383		D 440	(4.00.00)	D04/4000701
L 253	(B,72,54) Inductor	LCTAW150J2520		R 118	(A,89,29)	RS1/16S272J
L 233	(A,63,38) Inductor	CTF1473		R 119	(A,86,29)	RS1/16S472J
L 281	(A,61,74) Inductor	LCTAW2R2J2520		R 120	(B,70,27)	RS1/16S102J
L 201	(A,01,74) Inductor	LOTAVVZITZUZUZU		R 121	(A,77,32)	RS1/16S122J
L 351	(A,111,64) Inductor	CTF1306		R 131	(B,51,11)	RS1/16S223J
L 351	(B,84,125) Choke Coil 10			D 400	(D. 55.44)	D04/4000001
L 401	(B,154,146) Inductor	LCTAW220J2520		R 132	(B,55,11)	RS1/16S223J
L 401	(B,149,144) Chip Coil	LCTAW1R0J2520		R 135	(B,50,44)	RS1/16S0R0J
L 402 L 403	(B,126,141) Inductor	CTF1379		R 136	(B,50,46)	RS1/16S0R0J
L 403	(B, 120, 141) Illuuctoi	0111379		R 137	(B,49,11)	RS1/16S0R0J
L 404	(B,115,141) Inductor	LCTAW1R0J3225		R 138	(B,55,8)	RS1/16S0R0J
L 461	(A,127,86) Inductor	LCTAW111033223		D 400	(D. 50.0)	DO4/4000D0 I
L 462	(A,127,102) Inductor	CTF1473		R 139	(B,53,8)	RS1/16S0R0J
L 481	(A,93,12) Chip Ferrite Be			R 141	(A,76,123)	RS1/16S750J
L 541	(A,43,52) Inductor	CTF1473		R 142	(B,76,48)	RS1/16S472J
L 041	(71,40,02) madetor	011 1470		R 143	(B,79,48)	RS1/16S472J
L 542	(A,44,50) Inductor	CTF1473		R 144	(B,75,38)	RS1/16S101J
L 543	(A,43,47) Inductor	CTF1473		D 145	(D. 76. 46)	DC1/16C4701
L 601	(A,117,49) Inductor	LCTAW2R2J2520		R 145	(B,76,46)	RS1/16S472J RS1/16S472J
L 602	(A,109,37) Inductor	CTF1473		R 146	(B,79,46)	
L 751	(A,133,50) Inductor	CTF1306		R 147	(B,82,40)	RS1/16S102J
	(,			R 148 R 149	(B,79,34) (B,78,31)	RS1/16S272J RS1/16S472J
L 761	(B,71,113) Inductor	LCTAW2R2J2520		n 149	(6,76,31)	N3 1/1034/20
L 762	(B,67,112) Inductor	LCTAW2R2J2520		D 155	(P. E.4.20)	DC1/16C0D0 I
L 763	(B,74,111) Inductor	CTF1295		R 155 R 156	(B,54,29)	RS1/16S0R0J
L 831	(A,149,35) Power Inducto			R 161	(B,52,29)	RS1/16S0R0J
L 832	(A,152,30) Inductor	CTF1473		R 162	(B,40,36)	RS1/16S750J
2 002	(71,102,00) Inductor	0111110			(B,33,38)	RS1/16S472J
L 891	(A,140,18) Coil	CTH1267		R 163	(B,33,35)	RS1/16S472J
L 901	(A,23,120) Inductor	CTH1262		D 164	(P. 25. 20)	DC1/16C101 I
L 971	(A,37,23) Coil	CTH1303		R 164	(B,25,39)	RS1/16S101J
L 972	(A,32,8) Coil	CTH1303		R 165	(B,28,39)	RS1/16S472J
L 973	(B,13,21) Chip Coil	LCTAW100J2520		R 166 R 167	(B,31,34)	RS1/16S472J
_ 3.3	(=,::,=:,) Simp Son	_0		R 167	(B,29,33)	RS1/16S102J
L 974	(A,18,24) Inductor	CTH1254		n 100	(B,22,36)	RS1/16S272J
X 601	(B,98,45) Oscillator 4.718			D 160	(B 21 33)	BS1/16S470 I
VR271	(A,70,32) Semi-fixed 1 Kg			R 169 R 170	(B,21,33) (B,73,27)	RS1/16S472J RS1/16S0R0J
VR971	(A,28,16) Semi-fixed 10 k	` ,		R 181	(B,73,27) (B,42,41)	RS1/16S750J
<b></b> FU311	(B,18,74) Fuse 3.15 A	CEK1259		R 182	(B,42,41) (B,37,47)	RS1/16S472J
55.1	,=,,,			R 182 R 183	(B,37,47) (B,37,45)	RS1/16S472J RS1/16S472J
<b></b> £FU351	(B,85,144) Fuse 3.15 A	CEK1259		11 100	(טד, זט,ט)	1101/1004/20
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AVH-P5950DVD/XN/RC

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	<u>Circ</u>	cuit Symbol and No.	Part No.	<u>Cir</u>	cuit Symbol and No.	Part No.
	R 184	(B,31,49)	RS1/16S472J	R 284	(B,35,115)	RS1/16S272J
	R 185	(B,36,43)	RS1/16S472J	R 285	(B,31,112)	RS1/16S182J
Α	R 186	(B,34,42)	RS1/16S102J	R 286	(B,37,112)	RS1/16S182J
	R 187 R 188	(B,28,49) (B,23,45)	RS1/16S101J RS1/16S272J	R 287 R 288	(B,29,112) (B,38,115)	RS1/16S272J RS1/16S272J
	n 100	(0,23,43)	N31/1032723	Π 200	(0,36,113)	N31/1032/20
	R 189	(B,26,42)	RS1/16S472J	R 289	(B,61,78)	RAB4C102J
	R 191	(B,36,53)	RS1/16S0R0J	R 290	(B,59,82)	RS1/16S473J
	R 192	(B,32,55)	RS1/16S472J	R 291	(B,55,90)	RS1/16S563J
-	R 194 R 195	(B,32,54) (B,25,57)	RS1/16S472J RS1/16S472J	R 292 R 293	(B,57,69) (B,52,92)	RS1/16S563J RS1/16S0R0J
	11 100	(2,20,01)	110 1/100 1/20	11 200	(2,02,02)	1101/10001100
	R 196	(B,25,51)	RS1/16S472J	R 294	(B,53,66)	RS1/16S0R0J
	R 197	(B,23,58)	RS1/16S0R0J	R 311	(B,29,86)	RS1/16S390J
_	R 198 R 199	(B,23,51) (B,18,55)	RS1/16S102J RS1/16S272J	R 312 R 313	(B,29,89) (B,27,86)	RS1/16S390J RS1/16S223J
В	R 200	(B,20,51)	RS1/16S472J	R 314	(B,27,89)	RS1/16S223J
	R 201	(B,19,58)	RS1/16S0R0J	R 317	(B,29,74)	RS1/16S390J
	R 205 R 208	(B,22,61) (A,52,41)	RS1/16S332J RS1/16S101J	R 318 R 319	(B,29,78) (B,27,74)	RS1/16S390J RS1/16S223J
	R 209	(A,52,38)	RS1/16S102J	R 320	(B,27,77)	RS1/16S223J
	R 216	(B,48,54)	RS1/16S0R0J	R 323	(B,29,80)	RS1/16S390J
	D 047	(D 51 51)	D01/1600D0 I	D 004	(P.00.94)	DC1/16C200 L
	R 217 R 223	(B,51,51) (B,79,18)	RS1/16S0R0J RS1/16S101J	R 324 R 325	(B,29,84) (B,27,80)	RS1/16S390J RS1/16S223J
	R 224	(B,68,27)	RS1/16S0R0J	R 326	(B,27,83)	RS1/16S223J
	R 231	(B,85,54)	RS1/16S750J	R 331	(B,51,104)	RS1/16S103J
С	R 232	(B,86,48)	RS1/16S472J	R 332	(B,54,98)	RS1/16S473J
	R 233	(B,88,48)	RS1/16S472J	R 351	(B,92,113)	RS1/16S471J
	R 234	(B,84,40)	RS1/16S101J	R 352	(B,82,107)	RS1/16S514J
	R 235	(B,86,46)	RS1/16S472J	R 353	(B,59,8)	RS1/16S0R0J
	R 236	(B,88,46)	RS1/16S472J	R 354	(B,92,114)	RS1/16S471J
	R 237	(B,90,40)	RS1/16S102J	R 355	(B,86,60)	RS1/16S102J
	R 239	(B,89,34)	RS1/16S272J	R 356	(B,65,8)	RS1/16S0R0J
	R 240	(B,90,34)	RS1/16S472J	R 357	(B,84,105)	RS1/16S102J
	R 241	(B,66,50)	RS1/16S221J	R 358	(B,90,110)	RS1/16S472J
	R 242 R 243	(B,64,50) (B,74,27)	RS1/16S221J RS1/16S0R0J	R 360 R 361	(B,62,8) (B,81,105)	RS1/16S0R0J RS1/16S393J
D	11 240	(0,14,21)	1101/10001100	11 001	(0,01,100)	1101/1000000
	R 245	(B,71,27)	RS1/16S0R0J	R 362	(B,84,99)	RS1/16S104J
	R 251	(A,66,48)	RS1/16S472J	R 363	(B,89,108)	RS1/16S472J
	R 252 R 253	(A,66,45) (A,69,48)	RS1/16S472J RS1/16S472J	R 364 R 365	(B,87,108) (B,92,110)	RS1/16S104J RS1/16S102J
	R 254	(A,67,45)	RS1/16S472J	R 366	(A,110,71)	RS1/16S102J
	R 255	(A,72,48)	RS1/16S102J	R 367	(A,113,69)	RS1/16S102J
	R 256 R 257	(A,83,42) (A,72,45)	RS1/16S272J RS1/16S392J	R 368 R 369	(B,93,110) (B,89,103)	RS1/16S102J RS1/16S102J
	R 259	(A,81,50)	RS1/16S101J	R 370	(B,92,97)	RS1/16S102J
	R 260	(A,68,51)	RS1/16S101J	R 371	(B,92,103)	RS1/16S102J
Е	D 061	(B 60 56)	DC1/1604700D	D 270	(R 00 116)	DC1/16C104 I
_	R 261 R 262	(B,62,56) (B,62,53)	RS1/16S4702D RS1/16S3302D	R 372 R 391	(B,92,116) (A,49,28)	RS1/16S104J RS1/16S183J
	R 263	(A,72,68)	RS1/16S150J	R 392	(A,53,29)	RS1/16S183J
	R 264	(A,72,65)	RS1/16S560J	R 393	(A,48,26)	RS1/16S223J
	R 271	(A,63,33)	RS1/16S223J	R 394	(A,55,30)	RS1/16S223J
	R 272	(A,64,33)	RS1/16S303J	R 395	(A,52,29)	RS1/16S183J
	R 273	(A,67,34)	RS1/16S681J	R 396	(A,52,32)	RS1/16S183J
	R 274	(A,70,40)	RS1/16S681J	R 397	(A,48,19)	RS1/16S223J
	R 275	(A,67,31)	RS1/16S681J	R 398	(A,55,28)	RS1/16S223J
	R 276	(A,70,35)	RS1/16S272J	R 403	(B,145,146)	RS1/16S681J
_	R 277	(A,73,39)	RS1/16S0R0J	R 404	(B,144,146)	RS1/16S681J
F	R 278	(A,59,93)	RS1/16S0R0J	R 405	(B,142,146)	RS1/16S681J
	R 281	(B,33,112)	RS1/16S182J	R 406	(B,140,146)	RS1/16S681J
	R 282 R 283	(B,35,112) (B,31,115)	RS1/16S182J RS1/16S272J	R 407 R 409	(B,138,146) (B,119,147)	RS1/16S681J RS1/16S681J
		(3,01,110)	AVH-P5950DVI		(5,110,177)	1.01/1000010
	176	1 -	2 AVH-P5950DVL	J/XIV/NO	3	4
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	5 uit Symbol and No.	6 <u>Part No.</u>		ircuit Symbol and No.	Part No.	_
<u>0110</u>	an oymbor and no.	<u>r art ivo.</u>	<u> </u>	modit Cymbol and No.	rait ivo.	
R 416	(B,101,141)	RS1/16S0R0J	R 604	(A,112,45)	RS1/16S102J	
R 417	(B,101,145)	RS1/16S0R0J	R 605	(A,106,47)	RS1/16S0R0J	
R 421	(B,104,144)	RS1/16S682J	R 606	(A,106,45)	RS1/16S102J	Α
R 434	(B,101,143)	RS1/16S682J	R 607	(A,109,51)	RS1/16S471J	
R 461	(A,130,95)	RS1/16S101J	R 608	(A,114,52)	RS1/16S471J	
R 462	(A,128,94)	RS1/16S102J	R 609	(B,101,56)	RS1/16S182J	
R 463	(A,130,97)	RS1/16S150J	R 610	(B,102,56)	RS1/16S182J	
R 464	(A,130,98)	RS1/16S470J	R 611	(A,107,39)	RS1/16S473J	
R 465	(A,130,100)	RS1/16S101J	R 612	(A,109,45)	RS1/16S473J	
R 466	(A,133,99)	RS1/16S222J	R 613	(A,109,48)	RS1/16S104J	
R 467	(A,138,95)	RS1/16S332J	R 614	(A,106,44)	RS1/16S473J	
R 468	(A,137,97)	RS1/16S562J	R 615	(A,114,54)	RS1/16S102J	
R 469	(B,68,70)	RS1/16S181J	R 616	(A,105,50)	RS1/16S472J	
R 470	(B,65,70)	RS1/16S223J	R 617	(B,99,59)	RS1/16S221J	В
R 471	(B,65,71)	RS1/16S102J	R 618	(B,101,61)	RS1/16S221J	_
D 470	(D 70 75)	D04/4004044	D 040	(5.404.40)	D04/4000001	
R 472	(B,76,75)	RS1/16S181J RS1/16S223J	R 619	(B,104,46) (A,112,26) (RC,RI)	RS1/16S222J	
R 473 R 474	(B,73,75) (B,68,74)	RS1/16S223J RS1/16S102J	R 620 R 621	(A,112,26) (RC,RI) (A,112,22) (RD)	RS1/16S473J RS1/16S473J	
R 475	(A,130,105)	RS1/16S0R0J	R 622	(A,112,22) (ND) (A,113,26) (RD,RI)	RS1/16S473J	
R 476	(A,116,95)	RS1/16S0R0J	R 623	(A,113,22) (RC)	RS1/16S473J	
	· · · · ·		R 624	(B,111,31)	RS1/16S0R0J	
R 481	(B,92,26)	RS1/16S472J	R 625	(B,104,62)	RS1/16S102J	
R 482	(B,98,24)	RS1/16S472J				
R 483	(B,81,24)	RS1/16S102J	R 626	(A,111,31)	RS1/16S102J	
R 484	(B,83,26)	RS1/16S102J	R 627	(A,130,41)	RAB4C0R0J	_
R 485	(B,86,26)	RS1/16S102J	R 628 R 629	(A,111,35) (A,105,61)	RS1/16S473J RS1/16S0R0J	С
R 486	(B,87,26)	RS1/16S222J	R 630	(A, 103,61) (A, 107,65)	RS1/16S473J	
R 487	(B,89,26)	RS1/16S102J	555	(1,101,00)		
R 488	(B,98,22)	RS1/16S102J	R 631	(A,113,29)	RS1/16S103J	
R 489	(B,90,26)	RS1/16S102J	R 632	(A,107,61)	RS1/16S0R0J	
R 490	(A,88,17)	RS1/16S102J	R 633	(B,112,26)	RS1/16S102J	•
D 404	(P. 07.00)	D04/4004004	R 634	(A,102,61)	RS1/16S0R0J	_
R 491 R 492	(B,97,20)	RS1/16S102J	R 635	(A,102,65)	RS1/16S473J	
R 501	(B,95,20) (A,108,14)	RS1/16S102J RS1/16S103J	R 636	(B,115,17)	RS1/16S102J	
R 502	(A,111,19)	RS1/16S223J	R 637	(A,104,61)	RS1/16S0R0J	
R 503	(A,114,19)	RS1/16S473J	R 638	(A,105,65)	RS1/16S473J	
	, , ,		R 639	(B,116,17)	RS1/16S102J	D
R 504	(A,110,14)	RS1/16S472J	R 641	(A,113,35)	RS1/16S473J	
R 513	(A,36,92)	RS1/16S0R0J	<b>-</b>	/• · · · · •	50.//.50.6.	
R 514	(A,36,91)	RS1/16S0R0J	R 642	(A,114,35)	RS1/16S104J	
R 515 R 521	(A,39,94) (A,121,18)	RS1/16S102J RS1/16S102J	R 643 R 644	(B,116,32) (B,110,67)	RS1/16S102J RS1/16S471J	
H 321	(A,121,10)	H31/1031023	R 645	(A, 111,59)	RS1/16S4713	_
R 522	(A,127,17)	RS1/16S102J	R 646	(B,118,25)	RS1/16S102J	
R 523	(A,131,17)	RS1/16S102J		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
R 531	(B,108,13)	RS1/16S0R0J	R 647	(B,117,29)	RS1/16S102J	
R 532	(B,108,7)	RS1/16S0R0J	R 648	(B,111,67)	RS1/16S471J	
R 533	(B,108,10)	RS1/16S0R0J	R 649	(B,113,67)	RS1/16S471J	
D 524	(A 106 20)	RS1/16S102J	R 650 R 651	(A,117,35)	RS1/16S102J RS1/16S102J	Е
R 534 R 535	(A,106,29) (B,103,5)	RS1/16S0R0J	H 001	(A,119,35)	no i/ 100 102J	_
R 536	(B,103,3) (B,108,12)	RS1/16S0R0J	R 652	(A,121,35)	RS1/16S104J	
R 537	(B,103,7)	RS1/16S0R0J	R 653	(B,120,25)	RS1/16S102J	
R 538	(B,108,9)	RS1/16S0R0J	R 654	(B,119,29)	RS1/16S102J	
			R 655	(B,119,63)	RS1/16S102J	_
R 545	(A,41,56)	RS1/16S471J	R 656	(B,120,29)	RS1/16S102J	
R 546	(A,49,57)	RS1/16S102J	D 657	(P 100 69)	DC1/16C100 I	
R 547 R 548	(A,46,56) (A,49,56)	RS1/16S471J RS1/16S221J	R 657 R 658	(B,120,63) (B,121,32)	RS1/16S102J RS1/16S102J	
R 549	(A,49,50) (A,52,57)	RS1/16S221J	R 659	(B,122,29)	RS1/16S102J	
	\ ·;==;=:/		R 660	(A,119,61)	RS1/16S102J	
R 550	(A,49,54)	RS1/16S221J	R 661	(B,123,32)	RS1/16S102J	F
R 553	(B,58,60)	RS1/16S102J				Г
R 601	(A,113,39)	RS1/16S471J	R 662	(A,119,62)	RS1/16S102J	
R 602	(A,113,40)	RS1/16S102J	R 663	(B,124,62)	RS1/16S221J	
R 603	(A,109,39)	RS1/16S0R0J	R 664	(B,124,65)	RS1/16S104J	
_	<u> </u>	_	AVH-P5950DVD/XN/I		_	177 <u> </u>
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Ci-	₁ cuit Symbol and	2	Cir	₃ cuit Symbol and No.	<sup>4</sup> Part No.
	-	<del></del>			
R 665	(B,124,63)	RS1/16S221J	R 761	(A,130,49)	RS1/16S102J
R 666	(A,121,55)	RS1/16S473J	R 762	(B,69,102)	RS1/16S102J
R 667	(B,125,26)	RS1/16S102J	R 763	(B,73,107)	RS1/16S473J
R 668	(A,121,51)	RS1/16S473J	R 764	(B,70,107) (B,70,107)	RS1/16S472J
R 669	(B,125,29)	RS1/16S102J	R 765	(B,54,113)	RS1/16S103J
R 670		RS1/16S102J	R 766		RS1/16S473J
	(B,125,32)			(B,67,103)	
R 671	(B,126,31)	RS1/16S102J	R 767	(B,66,102)	RS1/16S473J
R 672	(B,128,31)	RS1/16S102J	R 769	(B,56,110)	RS1/16S104J
R 673	(B,129,31)	RS1/16S102J	R 770	(B,71,116)	RS1/16S153J
R 674	(A,95,5)	RS1/16S102J	R 771	(B,67,106)	RS1/16S103J
R 675	(A,130,35)	RS1/16S473J	R 772	(B,58,113)	RS1/16S473J
R 676	(A,132,35)	RS1/16S473J	R 773	(B,61,112)	RS1/16S103J
D 677	(D 106 FO)	DC1/16C470 I	D 774	(D.C4.110)	DC1/16C4701
R 677	(B,136,50)	RS1/16S473J	R 774	(B,64,112)	RS1/16S473J
R 678	(A,130,51)	RS1/16S473J	R 775	(B,63,113)	RS1/16S472J
R 679	(A,130,57)	RS1/16S473J	R 776	(B,73,103)	RS1/16S473J
R 680	(A,130,52)	RS1/16S333J	R 777	(B,76,105)	RS1/16S103J
R 681	(A,125,57)	RS1/16S104J	R 778	(B,78,106)	RS1/16S103J
R 682	(A,125,55)	RS1/16S103J	R 779	(B,74,109)	RS1/16S103J
R 683	(A,130,38)	RS1/16S473J	R 781	(A,119,10)	RS1/16S472J
R 684	(B,117,65)	RS1/16S102J	R 782	(A,110,10) (A,120,12)	RS1/16S223J
R 685	(A,140,44)	RS1/16S473J	R 783	(A,127,10)	RS1/16S472J
R 686	(A,140,44) (A,140,46)	RS1/16S473J	R 784	(A,128,12)	RS1/16S223J
11 000	(A, 140,40 <i>)</i>	1101/1004/00	n /0 <del>4</del>	(7,120,12)	1101/1002200
R 687	(A,125,49)	RS1/16S103J	R 801	(B,142,26)	RS1/16S102J
R 688	(A,130,45)	RAB4C102J	R 802	(B,148,19)	RS1/16S5602D
R 690	(A,108,54)	RS1/16S681J	R 803	(B,148,22)	RS1/16S1002D
R 691	(B,102,61)	RS1/16S103J	R 804	(B,161,18)	RS1/16S102J
R 692	(A,115,29)	RS1/16S105J	R 805	(A,144,48)	RS1/16S102J
R 693	(A,125,52)	RS1/16S183J	R 806	(A,150,48)	RS1/16S102J
R 694	(A,125,52) (A,125,51)	RS1/16S102J	R 807	(A,155,48)	RS1/16S102J
	(A,125,51) (A,125,54)	RS1/16S102J	R 808	(B,148,16)	RS1/16S5101D
R 695 R 696	(B,136,54)	RS1/16S102J		(B,146,16) (B,103,128)	RS1/16S5602D
R 697	(A,130,55)	RS1/16S0R0J	R 811 R 812	(B,102,130)	RS1/16S1002D
	( , , ,			, , ,	
R 698	(A,121,40)	RS1/16S0R0J	R 813	(B,106,120)	RS1/16S102J
R 699	(A,134,40)	RS1/16S473J	R 814	(B,103,131)	RS1/16S5600D
R 700	(A,114,56)	RS1/16S0R0J	R 821	(B,161,44)	RS1/16S2702D
R 722	(B,115,29)	RS1/16S0R0J	R 822	(B,158,44)	RS1/16S1002D
R 723	(B,109,33)	RS1/16S1501D	R 823	(B,162,55)	RS1/16S102J
R 724	(A,137,44)	RS1/16S473J	R 824	(B,162,46)	RS1/16S2702D
R 724 R 725	(A,137,44) (A,113,42)	RS1/16S0R0J	R 832	(B, 162,46) (B, 150,36)	RS1/16S2/02D RS1/16S5601D
				· / /	
R 731	(A,101,27)	RS1/16S104J	R 833 R 834	(B,149,37)	RS1/16S6801D
R 732 R 733	(A,98,25)	RS1/16S473J RS1/16S102J	H 834 R 835	(A,139,32)	RS1/16S473J RS1/16S104J
п / აპ	(A,99,27)	NS1/100102J	n 030	(A,139,37)	⊓31/10310 <del>4</del> J
R 734	(A,97,27)	RS1/16S102J	R 836	(A,141,38)	RS1/16S164J
R 735	(A,93,27)	RS1/16S104J	R 837	(A,144,38)	RS1/16S123J
R 736	(A,103,31)	RS1/16S102J	R 838	(A,144,41)	RS1/16S123J
R 741	(B,25,115)	RS1/16S222J	R 839	(A,145,38)	RS1/16S222J
R 742	(B,52,109)	RS1/16S103J	R 840	(A,157,38)	RS1/16S392J
D = 15	(D. 44 · · · · · ·	D0.//.co		(D. 4.40.55)	D04/460555
R 743	(B,44,112)	RS1/16S101J	R 841	(B,142,92)	RS1/16S391J
R 744	(B,51,115)	RS1/16S103J	R 842	(B,146,73)	RS1/16S2R2J
R 745	(B,47,112)	RS1/16S103J	R 843	(B,146,71)	RS1/16S2R2J
R 746	(B,52,117)	RS1/16S221J	R 844	(B,147,73)	RS1/16S2R2J
R 747	(B,44,114)	RS1/16S104J	R 845	(B,147,71)	RS1/16S2R2J
R 749	(B,52,119)	RS1/16S101J	R 846	(B,157,71)	RS1/16S271J
R 750	(B,39,114)	RS1/16S473J	R 851	(B,154,68)	RS1/16S221J
R 751	(B,136,51)	RS1/16S473J	R 852	(A,141,60)	RS1/16S2201D
R 752	(A,137,48)	RS1/16S102J	R 853	(A,138,60)	RS1/16S1502D
	(A,140,48)	RS1/16S102J	R 854	(A,138,59)	RS1/16S1002D
		-		· · · · /	
R 753					
R 753	(A,141,50)	RS1/16S102J	R 855	(A,141,59)	RS1/16S0R0J
R 753 R 754 R 755	(A,139,57)	RS1/16S103J	R 856	(B,132,67)	RS1/16S102J
R 753	· · · · /			,	

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	Circ	uit Symbol and No.	Part No.		Cir	cuit Symbol and No.	Part No.	
		<u>-</u>				-		
	858	(A,142,75)	RS1/16S183J		R 990	(A,24,17)	RS1/16S1502D	
R	861	(B,136,28)	RS1/16S6202D		R 991	(B,27,9)	RS1/16S6801D	
R	862	(B,140,23)	RS1/16S1002D		R 992	(B,21,10)	RS1/16S7501D	Α
R	863	(B,128,26)	RS1/16S102J		R 994	(B,27,11)	RS1/16S6802D	^
R	871	(B,141,100)	RS1/16S683J		R 995	(A,21,13)	RS1/16S4702D	
	872	(B,141,98)	RS1/16S123J		R 996	(B,21,21)	RS1/16S2203D	
	873	(B,149,95)	RAB4C680J		R 997	(A,19,17)	RS1/16S3302D	
п	0/3	(B,149,93)	NAD4C0003		n <i>991</i>	(A, 19, 17)	H31/1033302D	
_	074	(D 145 07)	DAD400001		D 000	(4.10.10)	DC1/100000D	
	874	(B,145,97)	RAB4C680J		R 998	(A,19,13)	RS1/16S3302D	_
	875	(B,162,98)	RS1/16S102J					
R	876	(A,168,106)	RS2PMFR47J	<u>(</u>	<u>CAPACI</u>	<u>TORS</u>		
R	877	(A,155,92)	RS1/16S103J					
R	878	(B,161,92)	RS1/16S103J		C 101	(B,59,13)	CKSRYB105K10	
					C 102	(B,62,11)	CKSRYB105K10	
R	880	(A,157,90)	RS1/16S562J		C 103	(B,61,11)	CKSRYB105K10	
	881	(A,159,94)	RS1/16S102J					_
		,			C 104	(B,64,13)	CKSRYB105K10	В
	882	(A,167,94)	RAB4C680J		C 105	(B,52,23)	CKSRYB105K10	
	883	(A,163,93)	RAB4C680J					
R	884	(B,159,97)	RS1/16S103J		C 106	(B,51,23)	CKSRYB105K10	
					C 107	(A,75,12)	CKSQYB225K10	
R	885	(A,165,98)	RS1/16S103J		C 108	(B,62,19)	CKSRYB104K50	
	891	(B,143,8)	RS1/16S222J		C 109	(A,74,7)	CEVLW220M16	
	892	(B,142,8)	RS1/16S222J					
	893	(B,145,8)	RS1/16S473J	,	C 111	(A,89,49)	CKSYB106K6R3	
n	901	(B,14,88)	RS1/16S301J		C 112	(A,85,49)	CKSYB106K6R3	
					C 113	(A,85,43)	CCSRCK2R0C50	
	903	(B,15,91)	RS1/16S301J		C 114	(A,88,43)	CCSRCK2R0C50	
R	905	(B,12,95)	RS1/16S153J		C 115	(A,83,39)	CKSRYB104K50	
R	911	(A,142,85)	RS1/16S104J		C 116	(A,88,27) 10 μF	CCG1171	С
	912	(A,142,87)	RS1/16S103J		0 110	(π,οο,Ση) το μι	0001171	
	921	(A,133,66)	RS1/16S103J		C 117	(4.84.26)	CKCDVB104KE0	
• • • • • • • • • • • • • • • • • • • •	021	(71,100,00)	1101/1001000			(A,84,36)	CKSRYB104K50	
ь	000	(A 100 CO)	DC1/16C100 I		C 118	(B,70,33)	CKSRYB104K50	
	922	(A,133,69)	RS1/16S103J		C 119	(A,92,37) 22 μF	CCG1178	
	931	(A,133,60)	RS1/16S104J		C 131	(B,51,13)	CKSRYB105K10	
	932	(A,133,63)	RS1/16S223J		C 132	(B,54,11)	CKSRYB105K10	
R	941	(A,142,80)	RS1/16S104J			,		-
R	942	(A,141,82)	RS1/16S223J		C 133	(B,52,11)	CKSRYB105K10	
		, , ,			C 134	(B,56,13)	CKSRYB105K10	
R	951	(B,21,121)	RS1/16S271J					
	952	(B,23,120)	RS1/16S271J		C 135	(B,51,20)	CKSRYB105K10	
					C 136	(B,49,20)	CKSRYB105K10	
	953	(B,25,109)	RS1/16S0R0J		C 137	(A,55,16)	CKSQYB225K10	_
	954	(B,21,119)	RS1/16S271J					D
R	955	(B,21,118)	RS1/16S103J		C 138	(B,53,19)	CKSRYB104K50	
					C 139	(A,63,7)	CEVLW220M16	
R	956	(B,23,117)	RS1/16S103J		C 142	(B,76,51)	CKSYB106K6R3	
	961	(A,130,83)	RS1/16S0R0J		C 143	(B,79,51)	CKSYB106K6R3	
	963	(A,164,82)	RS1/16S0R0J					
	964	(A,161,83)	RS1/16S271J		C 144	(B,79,45)	CCSRCH4R0D50	_
					_			
К	965	(A,161,84)	RS1/16S271J		C 145	(B,76,45)	CCSRCH4R0D50	
					C 146	(B,81,40)	CKSRYB104K50	
R	966	(A,161,86)	RS1/16S271J		C 147	(B,78,29) 10 μF	CCG1171	
R	967	(A,161,87)	RS1/16S103J		C 148	(B,82,37)	CKSRYB104K50	
R	968	(A,161,89)	RS1/16S103J		C 151	(A,48,23)	CKSRYB105K10	
	972	(B,25,21)	RS1/16S3901D		0 101	(A,40,20)	CROTTIBIOSRIO	
	973	(A,21,17)	RS1/16S4701D		0.450	(4.50.00)	OKODVD405K40	Е
- 11	370	(7,21,17)	1101/1004/015		C 152	(A,52,23)	CKSRYB105K10	
_	075	(D 00 04)	D04/4000000D		C 153	(A,49,23)	CKSRYB105K10	
	975	(B,26,24)	RS1/16S2202D		C 154	(A,51,23)	CKSRYB105K10	
	976	(B,26,21)	RS1/16S2202D		C 155	(B,59,20)	CKSRYB105K10	
R	978	(B,24,10)	RS1/16S6801D		C 156	(B,57,20)	CKSRYB105K10	
R	979	(B,24,7)	RS1/16S0R0J		-	• • • •		
	980	(B,23,10)	RS1/16S4701D		C 157	(A,51,12)	CKSQYB225K10	
-		, ,			C 157		CKSRYB104K50	_
D	981	(A,23,13)	RS1/16S8200D			(A,50,15)		
					C 159	(A,56,7)	CEVLW220M16	
	983	(B,23,27)	RS1/16S560J		C 162	(B,36,38)	CKSYB106K6R3	
	984	(A,17,11)	RS1/16S560J		C 163	(B,36,35)	CKSYB106K6R3	
	985	(B,20,24)	RS1/16S272J					
R	986	(B,18,21)	RS1/16S221J		C 164	(B,31,32)	CCSRCH4R0D50	F
					C 165	(B,31,39)	CCSRCH4R0D50	г
R	987	(B,19,10)	RS1/16S272J		C 166	(B,27,33)	CKSRYB104K50	
	988	(A,24,16)	RS1/16S6801D		C 166	(B,20,34) 10 µF	CCG1171	
	989	(B,18,10)	RS1/16S221J		0 107	(D,20,34) TO HE	00011/1	
11	500	(5,10,10)				_		
			A\/I	DEGEODI	ID/VII/D			

AVH-P5950DVD/XN/RC

		1 -	2		3	4
	<u>Cir</u>	cuit Symbol and No.	Part No.	Circ	cuit Symbol and No.	Part No.
	C 168	(B,24,34)	CKSRYB104K50	C 264	(A,80,59)	CEVLW221M4
	C 169	(B,73,33)	CKSRYB104K50	C 265	(A,73,59)	CEVLW221M4
_	C 182	(B,42,46)	CKSYB106K6R3	C 266	(A,69,45)	CCSRCJ3R0C50
Α	C 183	(B,40,43)	CKSYB106K6R3	C 271	(A,63,36)	CKSRYB105K10
	C 184	(B,36,41)	CCSRCH4R0D50	C 272	(A,57,36)	CEVLW101M10
	C 185	(B,34,49)	CCSRCH4R0D50	C 281	(A,53,67)	CKSQYB225K10
	C 186	(B,32,42)	CKSRYB104K50	C 282	(A,55,67)	CKSQYB225K10
	C 187	(B,23,42) 10 μF	CCG1171	C 283	(B,54,88)	CKSQYB225K10
	C 188	(B,21,45)	CKSRYB104K50	C 284	(B,55,68)	CKSQYB225K10
	C 189 C 191	(B,71,33) (B,36,58) 22 μF	CKSRYB104K50 CCG1178	C 285 C 286	(B,52,87) (B,52,69)	CKSRYB104K50 CKSRYB104K50
	C 192	(B,36,56) 22 μF	CCG1178	C 287	(B,63,74)	CKSQYB225K10
	C 193	(B,25,59)	CCSRCK2R0C50	C 288	(B,61,69)	CKSQYB225K10
В	C 194	(B,25,50)	CCSRCK2R0C50	C 289	(B,65,74)	CKSQYB225K10
	C 195	(B,21,51)	CKSRYB104K50	C 290	(B,61,71)	CKSQYB225K10
	C 196	(B,18,51) 10 μF	CCG1171	C 291	(B,49,89)	CKSYB475K16
	C 197	(B,16,51)	CKSRYB104K50	C 292	(B,49,67)	CKSYB475K16
	C 198	(B,17,59)	CKSYB106K6R3	C 293	(B,45,87)	CKSYB475K16
	C 200	(B,28,65)	CKSYB475K16	C 294	(B,46,69)	CKSYB475K16
-	C 201	(B,30,58)	CKSRYB103K50	C 295	(B,41,83)	CKSYB475K16
	C 202	(A,50,45)	CEVLW220M16	C 296	(B,42,71)	CKSYB475K16
	C 203	(A,56,46)	CEVLW101M10	C 297	(A,58,79)	CEVLW470M16
	C 205	(A,52,39)	CKSRYB105K10	C 298	(B,60,74)	CKSRYB104K50
	C 221	(A,81,26)	CKSQYB225K10	C 299	(A,58,74)	CKSRYB474K16
С	C 222	(A,83,26)	CKSQYB225K10	C 300	(B,59,74)	CKSRYB104K50
	C 223	(A,74,19)	CEVLW470M16	C 301	(A,54,73)	CEVLW100M16
	C 224	(A,79,18)	CKSRYB103K50	C 302	(A,48,82)	CEVLW100M16
	C 226	(B,68,33)	CKSRYB104K50	C 303	(B,43,81)	CKSRYB104K50
	C 227	(B,51,38)	CKSRYB105K10	C 304	(A,46,73)	CEVLW470M16
	C 228 C 231	(B,51,39) (B,84,51)	CKSRYB105K10 CKSYB106K6R3	C 311 C 312	(B,34,86) 10 μF (B,34,89) 10 μF	CCG1182 CCG1182
	C 232	(B,87,51)	CKSYB106K6R3	C 315	(B,34,74) 10 μF	CCG1182
	C 233	(B,86,45)	CCSRCH4R0D50	C 316	(B,34,77) 10 μF	CCG1182
	C 234	(B,88,45)	CCSRCH4R0D50	C 319	(B,34,80) 10 μF	CCG1182
	C 235	(B,92,40)	CKSRYB104K50	C 320	(B,34,83) 10 μF	CCG1182
D	C 236	(B,90,32) 10 μF	CCG1171	C 324	(B,14,72)	CKSRYB104K50
	C 237	(B,92,37)	CKSRYB104K50	C 331	(B,28,119)	CKSRYB105K10
	C 238	(B,74,33)	CKSRYB104K50	C 332	(B,35,119)	CKSRYB105K10
	C 241 C 242	(A,66,18) (A,58,23)	CEVLW470M16 CEVLW470M16	C 333 C 334	(B,28,121) (B,35,121)	CKSRYB105K10 CKSRYB105K10
	C 243	(B,63,29)	CKSRYB104K50	C 335	(B,31,119)	CKSRYB105K10
	C 244	(B,56,29)	CKSRYB104K50	C 336	(B,38,119)	CKSRYB105K10
	C 245	(A,66,29)	CKSYB475K16	C 337	(B,31,121)	CKSRYB105K10
	C 246	(B,63,31)	CKSRYB104K50	C 338	(B,38,121)	CKSRYB105K10
	C 247	(A,60,29)	CKSQYB225K10	C 339	(B,25,119) 10 μF	CCG1182
Е	C 248	(B,59,29)	CKSRYB105K10	C 340	(B,42,121)	CKSYB475K16
	C 249	(B,57,29)	CKSRYB105K10	C 341	(B,47,121)	CKSYB475K16
	C 250	(B,60,29)	CKSRYB104K50	C 342	(A,55,125)	CKSRYB104K50
	C 251	(A,62,49) 47 μF	CCG1181	C 343	(A,62,123) 1 000 μF/16 V	CCH1428
	C 252	(A,62,46) 22 μF	CCG1178	C 345	(B,62,153)	CKSQYB104K50
	C 253	(A,62,41) 47 μF	CCG1181	C 351	(B,86,108)	CKSRYB103K50
	C 254	(A,62,44) 22 μF	CCG1178	C 360	(A,109,66)	CKSRYB103K50
	C 256	(A,67,48)	CCSRCJ3R0C50	C 391	(B,53,33)	CKSRYB104K50
	C 257	(A,72,46)	CKSRYB104K50	C 392	(B,50,35)	CKSRYB104K50
	C 258	(A,77,38)	CEVLW100M16	C 401	(B,150,147)	CKSRYB103K50
F	C 259	(A,78,45)	CEVLW101M10	C 403	(A,148,109)	CEVLW101M10
г	C 260	(A,79,50)	CKSRYB104K50	C 405	(B,120,141)	CKSRYB103K50
	C 261	(A,64,54)	CEVLW101M10	C 406	(B,120,143)	CKSYB475K16
	C 262	(B,72,58) 10 μF	CCG1171	C 408	(B,116,145)	CKSRYB103K50
	C 263	(A,87,59)	CEVLW221M4	C 409	(B,116,147)	CKSYB106K6R3
	180		AVH-P5950DVE	D/XN/RC	_	

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Circ	uit Symbol and No.	Part No.	Circ	uit Symbol and No.	Part No.
C 410	(B,103,142)	CKSRYB474K16	C 764	(B,67,109)	CKSRYB103K50
C 410	(B, 103, 142)	CR3H1B474R10	C 704	(B,07,109)	CKSHTBTOSKSO
C 411	(B,107,140)	CKSRYB474K16	C 765	(B,65,110)	CKSRYB104K50
C 413	(B,144,138)	CKSYB475K16	C 766	(B,61,115)	CKSRYB104K50
C 414	(A,157,9)	CKSRYB102K50	C 769	(B,76,106)	CKSRYB104K50
C 415	(B,109,141)	CKSRYB474K16	C 770	(B,88,147)	CKSRYB104K50
C 416	,	CKSRYB474K16	C 770	,	CKSRYB104K50
C 416	(B,106,141)	CR3H1B4/4R10	0 771	(A,73,129)	CKSh 1 B 104K50
C 417	(B,99,132)	CKSRYB104K50	C 781	(A,114,11)	CKSRYB104K50
C 417		CKSQYB225K10	C 781		CKSRYB104K50
C 419	(B,101,136) (B,99,129)	CKSRYB105K10	C 801	(A,122,11)	CKSRYB104K50
	(B,129,143)	CKSRYB103K10	C 801	(B,145,29) (A,143,24)	CEVLW470M6R3
C 420	, , ,				
C 421	(B,145,141)	CKSYB475K16	C 803	(B,142,30)	CKSRYB103K50
C 422	(P 109 117)	CKSRYB103K50	C 804	(P 150 15)	CKSRYB103K50
	(B,108,117)			(B,152,15)	
C 423	(B,119,123)	CKSRYB104K50	C 805	(A,148,18)	CEVLW470M16
C 461	(B,129,90)	CKSRYB102K50	C 806	(A,156,20)	CKSQYB105K16
C 462	(B,128,90)	CKSRYB102K50	C 811	(A,129,110)	CEVLW220M16
C 464	(A,124,86)	CKSRYB104K50	C 812	(B,129,133)	CKSRYB103K50
0.405	(4.407.47)	00000011404150	0.010	(D. 100, 100)	01/01/01/01/01/01
C 465	(A,167,47)	CCSRCH101J50	C 813	(B,120,132)	CKSYB475K16
C 466	(A,162,18)	CKSRYB102K50	C 814	(B,119,124)	CKSRYB102K50
C 467	(A,129,102)	CKSRYB104K50	C 817	(B,102,127)	CKSRYB103K50
C 468	(A,113,95)	CCSRCH101J50	C 818	(A,108,109)	CEVLW470M16
C 481	(B,101,27)	CKSRYB104K50	C 819	(B,104,125)	CKSQYB105K16
C 484	(B,97,16)	CKSRYB104K50	C 821	(B,161,42)	CKSRYB103K50
C 501	(A,112,14)	CKSRYB103K50	C 822	(A,146,56)	CEVLW470M16
C 511	(B,35,95)	CCSRCH101J50	C 823	(B,161,50)	CKSQYB105K16
C 513	(A,58,87)	CEVLW221M4	C 831	(A,142,33)	CKSQYB105K16
C 514	(A,48,88)	CEVLW221M4	C 832	(B,152,36)	CKSRYB103K50
C 515	(B,46,92)	CKSRYB102K50	C 833	(B,151,38)	CKSRYB103K50
C 541	(A,42,59)	CKSYB475K16	C 834	(A,140,33)	CKSRYB473K50
C 542	(A,42,65)	CKSRYB104K50	C 835	(A,141,36)	CCSRCH220J50
C 544	(A,46,65)	CKSRYB104K50	C 836	(A,157,31)	CKSRYB104K50
C 545	(A,45,63)	CKSRYB102K50	C 837	(A,147,31)	CKSYB475K16
	, , ,			,	
C 601	(A,118,52)	CKSYB106K6R3	C 838	(A,153,33)	CKSRYB104K50
C 602	(B,103,47)	CCSRCH8R0D50	C 839	(B,146,41)	CKSRYB104K50
C 603	(B,103,44)	CCSRCH8R0D50	C 840	(B,159,40)	CKSYB475K16
C 604	(A,109,42)	CKSRYB104K50	C 841	(B,136,82)	CKSRYB102K50
C 605	(A,118,41)	CKSRYB102K50	C 842	(A,148,75)	CEVLW101M10
0 000	(* 1, 1 1 0, 1 1 )	0.10.1.12.102.100	0 0.2	(* 1, 1 10,1 0)	0_1
C 606	(B,101,54)	CCSRCH470J50	C 843	(B,136,83)	CKSRYB103K50
C 607	(B,102,54)	CCSRCH470J50	C 844	(B,135,85)	CKSRYB103K50
C 608	(B,104,56)	CKSRYB103K50	C 845	(A,163,74)	CEVLW470M16
C 609	(B,104,38)	CKSRYB105K10	C 846	(A,166,66) 1 000 μF/16 V	CCH1428
C 610	(B,100,37)	CKSYB475K16	C 847	(B,154,70)	CKSRYB104K50
0 010	(5,100,07)	ONO I BATOICIO	0 047	(5,104,70)	OKOTTI BIOTICO
C 611	(A,116,35)	CKSRYB474K16	C 851	(B,142,59)	CKSRYB102K50
C 612	(A,110,55) (A,130,54)	CKSRYB104K50	C 852	(A,148,66)	CEVLW101M10
C 614	(A,118,44)	CEVLW100M16	C 853	(B,140,57)	CKSRYB103K50
C 615	(A,118,44) (A,108,56)	CCSRCH470J50	C 854	(B,141,50)	CKSRYB103K50
C 616	,	CCSRCH101J50	C 855		CKSRYB104K50
C 616	(A,113,43)	CC2HCH101350	C 855	(B,158,65)	CKSK1B104K50
0.047	(4.400.50)	0000011470150	0.050	(4.450.00)	05)///4701440
C 617	(A,108,50)	CCSRCH470J50	C 856	(A,156,69)	CEVLW470M16
C 618	(A,114,49)	CCSRCH470J50	C 857	(A,139,65)	CEVLW101M6R3
C 619	(B,96,38)	CKSRYB104K50	C 858	(A,139,70)	CKSRYB102K50
C 731	(A,101,28)	CKSRYB104K50	C 859	(B,142,61)	CKSQYB105K16
C 732	(A,93,26)	CKSRYB105K10	C 860	(A,139,72)	CKSRYB104K50
•	4 "	01/07/7		(5.45.55)	01/0 = 1/2 = 1/2 = 1
C 733	(A,98,24)	CKSRYB102K50	C 861	(B,136,30)	CKSRYB103K50
C 741	(A,39,121)	CEVLW470M16	C 862	(A,132,10)	CEVLW470M16
C 742	(A,47,121)	CEVLW470M16	C 863	(B,133,31)	CKSQYB105K16
C 743	(B,42,108) 10 μF	CCG1182	C 871	(A,143,100) 10 μF	CCG1223
C 744	(A,54,117)	CEVLW330M10	C 873	(A,150,96) 10 μF	CCG1223
C 751	(A,134,52)	CKSRYB105K10	C 891	(A,139,10)	CEVLW470M16
C 761	(B,54,111)	CKSRYB105K10	C 892	(A,147,10)	CEVLW470M16
C 762	(B,55,113)	CKSRYB104K50	C 901	(B,30,100)	CKSRYB104K50
C 763	(B,62,146)	CKSRYB104K50	C 902	(B,15,80)	CKSYB475K16
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C 994 (A,779) 2200 µF180 CCH1658 D 0 4076 (A,123,4) LED CL-197HB1-0(CDE) C 911 (A,139,84) C 0 CKSRVB104K80 D 0 4077 (A,135,4) LED CL-197HB1-0(CDE) C 911 (A,130,69) CKSRVB104K80 D 4079 (A,161,81) LED CL-197HB1-0(CDE) C 911 (A,130,69) CKSRVB104K80 D 4079 (A,161,41) LED CL-197HB1-0(CDE) C 911 (A,130,69) CKSRVB104K80 D 4079 (A,161,41) LED CL-197HB1-0(CDE) C 911 (A,130,83) CKSRVB104K80 D 4079 (A,161,41) LED CL-197HB1-0(CDE) C 911 (A,130,83) CKSRVB104K80 D 4080 (A,161,41) LED CL-197HB1-1(CDE) C 911 (A,130,83) CKSRVB104K80 D 4080 (A,161,41) LED CL-197HB1-1(CDE) C 951 (B,13,111) C 951 (B,131,11) CSCRVB103K80 S 4032 (A,14,11) Emcoder C 951 (B,13,111) C 952 (A,15,119) CEVUM/100H16 S 4032 (A,14,11) Emcoder C 951 (B,13,111) C 952 (A,15,119) CEVUM/100H16 S 4032 (A,161,0) Publis Switch C 951 (B,15,119) CEVUM/100H16 S 4032 (A,161,0) Publis Switch C 951 (B,15,119) CEVUM/100H16 S 4032 (A,161,0) Publis Switch C 951 (B,15,119) CEVUM/100H16 S 4032 (A,161,0) Publis Switch C 951 (A,15,189) CEVUM/100H16 S 4032 (A,161,0) Publis Switch C 951 (A,15,189) C 951 (A,21,19) C 95	•	Circ	₁ ■ uit Symbol and No.	2 Part No.	-	₃ ■ Sircuit Symbol and No.	4 Part No.
C 921 (A,190,66) CKSFYB104K50 D 4078 (A,146,19) LED CL-197H81-D(CDE) C 932 (A,194,85) CKSFYB104K50 D 4078 (A,194,161) LED CL-197H81-D(CDE) C 942 (A,194,85) CKSFYB104K50 D 4080 (A,194,14) Indicator CTF1473 (CKSFYB104K50 CSF) D 4080 (A,194,14) Indicator CTF1473 (B,191,111) CKSFYB104K50 S 4032 (A,194,14) Indicator CTF1473 (B,191,111) CKSFYB104K50 S 4032 (A,151,19) Push Switch CSG1155 C 981 (A,151,19) CKSFYB104K50 S 4033 (A,140,8) Push Switch CSG1155 C 981 (A,151,19) CKSFYB104K50 S 4033 (A,140,8) Push Switch CSG1155 C 981 (A,154,88) CKSFYB103K50 S 4032 (A,150,8) Push Switch CSG1155 C 981 (A,154,88) CKSFYB103K50 S 4035 (A,106,8) Push Switch CSG1155 C 981 (A,158,83) CKSFYB103K50 S 4035 (A,106,8) Push Switch CSG1155 C 983 (A,158,83) CKSFYB103K50 S 4035 (A,106,8) Push Switch CSG1155 C 983 (A,158,83) CKSFYB103K50 S 4035 (A,166,8) Push Switch CSG1155 C 983 (A,158,83) CKSFYB103K50 S 4037 (A,156,8) Push Switch CSG1155 C 983 (A,158,83) CKSFYB103K50 S 4037 (A,156,8) Push Switch CSG1155 C 983 (A,158,83) CKSFYB103K50 S 4037 (A,156,8) Push Switch CSG1155 C 983 (A,158,83) CKSFYB103K50 S 4037 (A,156,8) Push Switch CSG1155 C 983 (A,158,83) CKSFYB103K50 S 4037 (A,156,8) Push Switch CSG1155 C 983 (A,156,83) CKSFYB103K50 S 4037 (A,156,8) Push Switch CSG1155 C 983 (A,156,83) CKSFYB103K50 S 4037 (A,156,8) Push Switch CSG1155 C 983 (A,156,83) CKSFYB103K50 S 4037 (A,156,8) Push Switch CSG1155 C 983 (A,156,83) C 983 (A,1			=		·	<u>-</u>	
C 931 (A.130.66) CKSPYB104K50 D 4070 (A.151.4) LED CL197HB1-D(CDE) C 931 (A.134.56) CKSPYB104K50 D 4080 (A.164.4) LED CL197HB1-D(CDE) C 941 (A.139.78) CKSPYB104K50 D 4080 (B.841.4) Inductor CTF1473 CKSPYB104K50 S 4032 (A.151.19) EWIND SWIRT C 50511 (B.13.111) CKSPYB104K50 S 4032 (A.151.19) EWIND SWIRT C 50511 (B.13.111) CKSPYB103K50 S 4032 (A.14.51.19) EWIND SWIRT C 50511 (B.13.111) CKSPYB103K50 S 4032 (A.14.60.8) Plank Switch CSG1155 (S.011.12) CKSPYB103K50 S 4034 (A.150.8) Plank Switch CSG1155 (S.011.12) CKSPYB103K50 S 4034 (A.150.8) Plank Switch CSG1155 (S.011.12) CKSPYB103K50 S 4035 (A.150.8) Plank Switch CSG1155 (S.011.5) C 961 (A.154.89) CKSPYB103K50 S 4035 (A.150.8) Plank Switch CSG1155 (S.011.5) C 961 (A.154.89) CKSPYB103K50 S 4035 (A.150.8) Plank Switch CSG1155 (S.011.5) C 975 (A.156.83) CKSPYB103K50 S 4035 (A.156.89) Plank Switch CSG1155 (S.011.5) C 975 (A.156.83) CKSPYB103K50 S 4035 (A.156.89) Plank Switch CSG1155 (S.011.5) CKSPYB223K50 CKSPYB103K50 S 4035 (A.156.89) Plank Switch CSG1155 (S.011.5) CKSPYB223K50 CKSPYB23K50 CKSPYB23K		C 911	(A,139,84)	CKSRYB104K50	D 4077	(A,135,4) LED	CL-197HB1-D(CDE)
C 931 (A.19366) CASHYBINARSO D 44979 (A.194.1) ELD CL197/HBI-D(CDE) C 941 (A.19378) CASHYBINARSO D 44091 (B.43.14) ELD CL197/HBI-D(CDE) C 941 (A.19378) CASHYBINARSO D 44001 (B.43.14) Inductor CL197/HBI-D(CDE) C 941 (A.19380) CASHYBINARSO S 40032 (A.16.18) Push Switch CSG1155		C 921	(A,130,66)	CKSRYB104K50	D 4078	(A,146,19) LED	CL-197HB1-D(CDE)
C 941 (A.130,78) CKSFY9104K50 L 4001 (B.94,14) Inductor CTF1473  C 942 (A.14,80) CKSFY9104K50 S 4031 (A.156,19) Push Switch CSD1145 (B.15,111) CKSFY9108K50 S 4031 (A.156,19) Push Switch CSD1146 (B.15,111) CKSFY9108K50 S 4034 (A.126,19) Push Switch CSD1146 (B.15,111) CKSFY9108K50 S 4034 (A.126,19) Push Switch CSD1146 (B.154,18) CKSFY9108K50 S 4035 (A.154,89) Push Switch CSD1155 (B.154,14) Push Switch	А	C 931	(A,130,60)	CKSRYB104K50	D 4079	(A,151,4) LED	
C 942 (A.143,80) CKSRYB104K50 S 4031 (A.156,19) Push Switch CSD1156 C 951 (B.13,111) CKSRYB104K50 S 4032 (A.14,11) Encoder CSD1140 CKSRYB104K50 S 4032 (A.14,11) Encoder CSD11410 C 952 (A.15,119) CEV_W100M16 S 4033 A.100,0 Push Switch CSC1155 C 961 (A.15,189) CEV_W100M16 S 4035 A.034 (A.156,6) Push Switch CSC1155 C 961 (A.154,86) CKSRYB104K50 S 4034 (A.156,6) Push Switch CSC1155 C 961 (A.154,86) CKSRYB104K50 S 4035 A.036 (A.164,6) Push Switch CSC1155 C 961 (A.154,86) CKSRYB104K50 S 4035 C A.156,87 D A.156,83 C CSRYB103K50 S 4037 (A.156,6) Push Switch CSC1155 C 971 (B.25,24) CCSRCH101,50 C C 973 (A.44,16) 220 µF10 V CH409 C 975 (B.257) CKSRYB228K50 BESISTORS  C 976 (A.251) 220 µF10 V CH409 C CSRCH101,50 C C 977 (A.44,16) 220 µF10 V C CH409 C C 977 (A.44,16) 220 µF10 V C CH409 C C 977 (A.251) A.156 C C 977 (A.251) C P 978 (B.257) C C 977 (A.251) C P 978 (B.257) C C 979 (B.257) C C 977 (A.251) C P 978 (B.257) C C 979 (B.257) C P 97		C 932	(A,134,58)	CKSRYB104K50	D 4080	(A,164,4) LED	CL-197HB1-D(CDE)
C 951 (B.13,111) CKSPYB104K50 S 4032 (A.14.11) Encoder CSD1140 C 983 (B.20,112) CVSVW100M16 S 4033 (A.16.0, Plush Switch CSC11155 C 983 (B.20,112) CVSSYP104K50 S 4034 (A.15.2, Plush Switch CSC11155 C 981 (A.154.8) CVSSYP104K50 S 4034 (A.154.8) Plush Switch CSC11155 C 981 (A.154.8) CVSSYP104K50 S 4034 (A.154.8) Plush Switch CSC11155 C 983 (A.156.8) CVSSYP104K50 S 4037 (A.156.8) Plush Switch CSC11155 C 983 (A.156.8) CVSSYP104K50 S 4037 (A.156.9) Plush Switch CSC11155 C 983 (A.156.8) CVSSYP104K50 S 4037 (A.156.9) Plush Switch CSC11155 C 983 (A.156.8) CVSSYP104K50 S 4037 (A.156.9) Plush Switch CSC11155 C 983 (A.156.8) CVSSYP104K50 S 4037 (A.156.9) Plush Switch CSC11155 C 983 (A.156.8) CVSSYP104K50 S 4037 (A.156.9) Plush Switch CSC11155 C 983 (A.156.8) CVSSYP104K50 S 4037 (A.156.8) Plush Switch CSC11155 C 983 (A.156.8) Plu		C 941	(A,139,78)	CKSRYB104K50	L 4001	(B,94,14) Inductor	CTF1473
© 982 (A.15.119) CEVLW100M16 S 4033 (A.16.09, Push Switch C 961 (A.15.4, BB) CEVLW100M16 S 4035 (A.13.29, Push Switch C 961155 (B.20.112) CKSPYB103K500 S 4035 (A.10.69, Push Switch C 961155 (B.20.112) CKSPYB103K500 S 4035 (A.10.69, Push Switch C 961155 (C.962 (A.15.89) CKSPYB103K500 S 4035 (A.16.69, Push Switch C 961155 (C.963 (A.15.89) CKSPYB103K500 S 4035 (A.15.49, Push Switch C 961155 (C.963 (A.15.89) CKSPYB103K500 S 4035 (A.15.49, Push Switch C 961155 (C.973 (A.44.18) Z20 µF10 V C CH14.09 CKSPYB103K500 CKSPYB1			,				
C 983 (B.20,112) C CXSTYB103K50 S 4034 (A,1326) Push Switch CSG1155 C 961 (A,154,89) CKSTYB103K50 S 4035 (A,156,6) Push Switch CSG1155 C 963 (A,156,83) CKSTYB103K50 S 4035 (A,154,6) Push Switch CSG1155 C 963 (A,156,83) CKSTYB103K50 S 4037 (A,154,6) Push Switch CSG1155 C 971 (A,44,16) 220 µF10 V CKTH409 C CH1409 C 975 (B,25,7) CKSTYB20XK50 B 20							
C 981 (A,154,88) CKSRYE10KS0 S 4035 (A,166,8) Push Switch CSG1155 (C 982 (A,151,88) CEVENTOWNIE S 4036 (A,166,8) Push Switch CSG1155 (C 987 (A,156,83) CKSRYE10KS0 S 4037 (A,119,6) Push Switch CSG1155 (C 971 (B,25,24) CCSRCH101,500 CKSRYE22SK0 RESISTORS  C 973 (B,25,7) CKSRYE22SK0 RESISTORS  C 977 (A,44,8) 470,µF6,3 V CCH1409 CKSRYE22SK0 RESISTORS  C 977 (A,44,8) 470,µF6,3 V CCH1407 R 4002 (B,103,5) R51/165221,J R51/16521,J R51/165221,J R51/16521,J R51/165221,J R51/165221,J R51/165221,J R51/165221,J R51/16521,J R51/165221,J R51/165221,J R51/165221,J R51/165221,J R51/16522	-						
C 963 (A,156,83) CKSRYE10KS60 (B,257) CKSRYE10KS60 (C,277 (A,44,8) 470 µF63.27 (C,277) CKSRYE10KS60 (B,25.77) CKSRYE10KS60 (B,25.77) CKSRYE22KS60 (B,25.77) CKSRYE3CKS76 (B,26.77) CKSRYE3CKS776 (B,26.77) CKSRYE3CKS776 (B,26.77) CKSRYE3CKS777 CKSRYE3CKS77 CKSRYE3CKS777 CKSRYE3CKS777 CKSRYE3CKS77 CKSRYE3CKS777 CKSRYE3CKSC CKSRYE3CKS777 CKSRYE3CKS77 CKSRYE3CKS77 CKSRYE3CKS77 CKSRYE3C							
C 971			•			,	
C 974 (A,41,6) 220 µF/10 V CCH1409 C CSRVB222K50 RESISTORS  C 976 (A,39,15) 220 µF/10 V CCH1409 R 4001 (B,103,6) R51/165221J R51/16522J R51/165213J R51/165213J R51/165213J R51/165213J R51/165213J R51/16522J R51/165213J R51/16522J R51/165213J R51/16522J R51/165213J R51/16522J R51/165213J R51/16522J R51/16522J R51/165213J R51/16522J R51/165213J R51/16522J R51/16522J R51/165213J R51/16522J R51/165213J R51/16522J R51/16522J R51/16522J R51/16522J R51/16522J R51/16522J R51/165213J R51/16522J R51/16522J R51/16522J R51/165213J R51/16522J R51/16521J R51/165213J R51/16522J R51/16521J R51/16522J R51/16521J R51/16522J R51/16522J R51/16522J R51/16521J R51/16529J R51/165					S 4037		
C 975 (B.2.57) CKSRYB223K50 RESISTORS  C 976 (A.33,15) 220 µF/10 V CCH1409 R 4001 (B.103,6) R81/165221J C 980 (B.28,18) CKSYB475K16 R 4002 (B.103,5) R81/165221J C 981 (A.24,13) CCSRCH101J50 R 4004 (B.88,6) R81/165221J C 981 (A.24,13) CCSRCH101J50 R 4004 (B.88,6) R81/165221J C 982 (B.2.27) CKSRYB686K16 R 4005 (B.86,8) R81/165323J C 982 (B.2.27) CKSRYB686K16 R 4005 (B.86,8) R81/165393J C 983 (A.17,17) CKSRYB104K50 R 4022 (B.97,13) R81/165310J C 986 (A.17,17) CKSRYB104K50 R 4022 (B.97,13) R81/165310J C 986 (A.17,13) CKSRYB104K50 R 4031 (B.34,8) R81/1653513J C 0 987 (B.13,17) CKSRYB104K50 R 4031 (B.34,8) R81/1653513J C 0 992 (A.7,28) 2 200 µF/16 V CCH1659 R 4033 (B.159,15) R81/16510J C 993 (B.16,24) CKSYB475K16 R 4036 (B.152,7) R81/165303J C 993 (B.16,24) CKSYB475K16 R 4036 (B.152,7) R81/165391J R 4041 (A.44)+4J R81/165391J R 4041 (A.44)+4J R81/165391J R 4042 (B.97,14) R81/165391J R 4042 (B.97,14) R81/165391J R 4044 (B.10,13) BR1/1653103J R 4044 (B.10,13) BR1/1653103J R 4044 (B.15,18) R81/165391J R 4055 (B.15,2) R81/165391J R 4056 (B.15,2) R81/165391J R 4057 (B.156,6) R81/165391J R 4058 (B.15,19) R81/165327J R 4059 (B.15,19) R81/165327J R 4050 (B.15,19) R81/165327J R 4050 (B.15,19) R81/165391J R 4054 (B.18,16) R81/165327J R 4055 (B.156,9) R81/165391J R 4056 (B.156,9) R81/165327J R 4057 (B.156,9) R81/165327J R 4058 (B.156,9) R81/165327J R 4059 (B.156,9) R81/165327J R 4050 (B.156,9) R81/165391J D 4061 (A.143,6) Diode MALS068X R 4071 (B.10,7) R81/165393J D 4062 (A.348,8) Diode MALS068X R 4071 (B.10,7) R81/165393J D 4062 (A.136,8) Diode MALS068X R 4071 (B.10,7) R81/165393J D 4061 (A.142,8) Diode MALS068X R 4071 (B.10,7) R81/165393J D 4062 (A.94,9) White LED NEWS050C-5273 R 4076 (B.111,10) R81/165393J D 4062 (A.94,9) White LED NEWS050C-5273 R 4076 (B.111,10) R81/165393J D 4060 (A.156,8) LED CL-1958R-CD R 4076 (B.115,9) R81/165393J D 4060 (A.156,7) LED CL-1958R-CD R 4096 (B.156,14) R81/16599J D 4060 (A.156	В					LCD	CAW1946
C 976 (A.39,15) 220 µF/10 V CCH1409 R 4001 (B.103,6) R51/165221J C 977 (A.44,8) 470 µF/6.3 V CCH1437 R 4002 (B.103,5) R51/165221J C 980 (B.28,18) C 981 (A.24,18) C CSPRCH101J50 R 4003 (B.88,4) R51/165221J C 981 (A.24,18) C CSPRCH101J50 R 4005 (B.88,6) R51/165221J C SPRCH101J50 R 4005 (B.88,6) R51/165221J C SPRCH101J50 R 4005 (B.88,6) R51/165373J C 982 (B.22,7) C KSRYB688K16 R 4005 (B.88,6) R51/165393J C 982 (B.22,7) C KSRYB698K16 R 4005 (B.88,6) R51/165393J C 985 (A.17,17) C KSRYB104K50 R 4021 (B.99,10) R51/165393J R51/165370J C 985 (A.17,13) C KSRYB104K50 R 4021 (B.99,10) R51/165370J C 987 (B.13,17) C KSRYB104K50 R 4031 (B.34,8) R51/165370J C 993 (B.13,17) C KSRYB104K50 R 4031 (B.15,16) R51/165310J R 4034 (B.15,16) R51/16510J R51/16510J R 4031 (B.15,16) R51/165222J R 4031 (B.15,16) R51/165221J R 4035 (B.15,16) R51/165221J R 4035 (B.15,16) R51/165221J R 4031 (B.15,16) R51/165221J R 4051 (B.17,7) R51/165221J R 4051 (B.17,7) R51/165221J R 4055 (B.15,19) R51/165271J R 4056 (B.15,29) R51/165301J R 4056 (B.15,29) R51/165301J R 4056 (B.15,29) R51/165301J R 4050 (B.15,29) R51/165301J R					DE010		
C 977 (A.44.8) 470 μF/6.3 V CCH1437 R 4002 (E.103.5) RS1/16S221J C 980 (B.28.18) C 981 (A.24.13) C CSRCH101J50 R 4003 (B.89.4) RS1/16S221J C 982 (B.22.7) CKSRYB683K16 R 4005 (B.86.8) RS1/16S233J C 982 (B.22.7) CKSRYB683K16 R 4005 (B.86.8) RS1/16S333J C 984 (B.15.18) C KSRYB104K50 R 4005 (B.86.8) RS1/16S333J C 984 (B.15.18) C KSRYB104K50 R 4005 (B.97.13) RS1/16S303J C 985 (A.17.17) C KSRYB104K50 R 4021 (B.97.13) RS1/16S513J RS1/16S513J C 0 987 (B.13.17) C KSRYB104K50 R 4021 (B.97.13) RS1/16S513J RS1/16S527JJ		C 9/5	(B,25,7)	CKSHYB223K50	RESIS	<u>IORS</u>	
C 990 (B.28,18) CKSYP475K16 R 4003 (B.80.4) RS1/16S221J C 982 (B.22.7) CKSRYB689K16 R 4005 (B.86.8) RS1/16S473J C 982 (B.22.7) CKSRYB689K16 R 4005 (B.86.8) RS1/16S473J C 982 (B.22.7) CKSRYB689K16 R 4005 (B.86.8) RS1/16S393J C 982 (B.22.7) CKSRYB104KS0 R 4005 (B.86.8) RS1/16S393J C 982 (A.17.12) CKSRYB104KS0 R 4002 (B.97.13) RS1/16S470J C 986 (A.17.12) CKSRYB104KS0 R 4021 (B.98.10) RS1/16S470J C 992 (A.7.28) 2 200 µF/16V CKSPK9104KS0 R 4031 (B.34.8) RS1/16S513J RS1/16S513J RS1/16S513J R 4034 (B.158.10) RS1/16S522J C 992 (A.7.28) 2 200 µF/16V CKSYB475K16 R 4035 (B.159.15) RS1/16S522J R 4037 (B.158.10) RS1/16S222J C 993 (B.16.24) CKSYB475K16 R 4035 (B.29.11) RS1/16S222J R 4037 (B.159.15) RS1/16S222J C 993 (B.16.24) CKSYB475K16 R 4035 (B.29.11) RS1/16S222J C 993 (B.16.24) CKSYB475K16 R 4035 (B.29.11) RS1/16S222J R 4042 (B.97.14) RS1/16S223J R 4041 (A.94.14) RS1/16S391J R 4041 (A.94.14) RS1/16S391J R 4041 (A.94.14) RS1/16S391J R 4042 (B.97.14) RS1/16S391J R 4042 (B.97.14) RS1/16S271J R 4052 (B.17.10) R 1042 (B.17.16) R 1043 (						· · · · · ·	
C 981 (A,24.19) CCSRCH101JS0 R 4005 (B,86.8) RS1/16S39J C 984 (B.15.18) CKSRYB838K16 R 4005 (B,86.8) RS1/16S39J C 985 (A,17.17) CKSRYB104K50 R 4021 (B,97.13) RS1/16S101J C 985 (A,17.19) CKSRYB104K50 R 4021 (B,97.13) RS1/16S513J C 0 987 (B,13.17) CKSRYB104K50 R 4031 (B,58.4) RS1/16S513J C 0 987 (B,13.17) CKSRYB104K50 R 4034 (B,156.15) RS1/16S513J C 0 992 (A,7.28) 2 200 µF/16V CCH1659 R 4034 (B,156.15) RS1/16S103J C 0 993 (B,16.24) CKSYB475K16 R 4035 (B,156.15) RS1/16S103J R 4036 (B,156.10) RS1/16S103J R 4036 (B,156.10) RS1/16S222J C 993 (B,16.24) CKSYB475K16 R 4035 (B,156.10) RS1/16S232J C 1 993 (B,16.24) CKSYB475K16 R 4035 (B,156.10) RS1/16S232J C 1 993 (B,16.24) CKSYB475K16 R 4035 (B,156.10) RS1/16S232J C 1 993 (B,16.24) CKSYB475K16 R 4035 (B,156.10) RS1/16S233J R 4036 (B,156.10) RS1/16S233J R 4037 (B,155.6) RS1/16S23J R 4037 (B,155.6) RS1/16S233J R 4036 (B,152.10) RS1/16S237J R 4051 (B,17.7) RS1/16S237J R 4052 (B,17.10) RS1/16S237J R 4052 (B,17.10) RS1/16S237J R 4053 (B,15.19) RS1/16S271J R 4053 (B,15.19) RS1/16S271J R 4054 (B,156.16) RS1/16S271J R 4055 (B,152.20) RS1/16S101J R 4054 (B,10.13) Digital Transistor DTC143EUA R 4057 (B,159.8) RS1/16S101J D 4001 (A,143.6) Diode MALS068X R 4056 (B,156.4) RS1/16S221J D 4001 (A,143.6) Diode MALS068X R 4057 (B,159.8) RS1/16S291J D 4001 (A,143.6) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4002 (A,136.8) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4004 (A,143.6) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4004 (A,143.6) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4005 (A,143.6) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4006 (A,143.6) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4007 (A,136.8) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4008 (A,144.8) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4009 (A,144.8) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4009 (A,144.8) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4009 (A,144.8) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4009 (A,144.8) Diode MALS068X R 4071 (B,10.7) RS1/16S151J D 4009 (A,144.8) Diode MALS068X R							
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C 984 (B.15.18) CKSPYB104K50 R 4022 (B.98.10) R51/16S101J C 985 (A.17.17) CKSPYB104K50 R 4022 (B.97.13) R51/16S101J C 985 (A.17.13) CKSPYB104K50 R 4022 (B.97.13) R51/16S13J R51/16S13J C C 987 (B.13.17) CKSPYB104K50 R 4031 (B.34.8) R51/16S13J R51/16S13J C C 992 (A.7.28) 2 200 μF/16V CCH1659 R 4034 (B.158.10) R51/16S22ZJ C 993 (B.16.24) CKSYB475K16 R 4035 (B.152.10) R51/16S22ZJ C 993 (B.16.24) CKSYB475K16 R 4035 (B.152.7) R51/16S22ZJ R 4037 (B.155.6) R51/16S22ZJ C 993 (B.16.24) CKSYB475K16 R 4036 (B.152.7) R51/16S22ZJ R 4037 (B.155.6) R51/16S103J R 4037 (B.155.6) R51/16S103J R 4037 (B.155.6) R51/16S103J R 4032 (B.97.14) R51/16S22ZJ R 4037 (B.155.6) R51/16S103J R 4032 (B.97.14) R51/16S22TJ R 4032 (B.97.14) R51/16S27JJ R 4053 (B.15.19) R51/16S27JJ R 4053 (B.15.19) R51/16S27JJ R 4053 (B.15.19) R51/16S27JJ R 4055 (B.152.9) R51/16S10JJ R 4056 (B.152.9) R51/16S22JJ R 4056 (B.152.9) R51/16S22JJ R 4056 (B.152.9) R51/16S23JJ R 4056 (B.152.9	_					,	
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C C 987 (B, 13,17) C KSYB475K16 R 4033 (B, 159,15) RS1/16S103J RS1/16S222J C 993 (A, 7,28) 2 200 µF/16V CCH1659 R 4034 (B, 158,10) RS1/16S222J C 993 (B, 16,24) C KSYB475K16 R 4035 (B, 158,10) RS1/16S222J R 4037 (B, 158,10) RS1/16S222J R 4037 (B, 158,10) RS1/16S22J R 4036 (B, 152,7) RS1/16S22J R 4037 (B, 155,6) RS1/16S29J R 4042 (B, 97,14) RS1/16S391J R 4053 (B, 15,19) RS1/16S271J R 4054 (B, 18,16) RS1/16S271J R 4055 (B, 152,9) RS1/16S101J R 4055 (B, 152,9) RS1/16S101J R 4055 (B, 152,9) RS1/16S221J R 4054 (B, 18,16) R 4055 (B, 152,9) RS1/16S221J R 4054 (B, 18,16) R 4055 (B, 152,9) RS1/16S221J R 4054 (B, 18,16) R 4055 (B, 152,9) RS1/16S221J R 4054 (B, 18,16) R 4055 (B, 152,9) R 4055						, , ,	
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E    C 993	C						
R 4036					R 4034	(B,158,10)	RS1/16S222J
R 4037 (B.155,6)		C 993	(B,16,24)	CKSYB475K16			RS1/16S103J
Unit Number: Unit Number: Unit Name : Keyboard Unit  R 4051 (B,97,14)  R 4052 (B,17,7)  R 4052 (B,17,10)  R 4052 (B,17,10)  R 81/168271J  R 4053 (B,15,19)  R 81/168271J  R 4054 (B,18,16)  R 81/168271J  R 4055 (B,18,16)  R 81/168271J  R 4055 (B,18,16)  R 81/168271J  R 4056 (B,18,16)  R 81/168271J  R 4057 (B,18,16)  R 81/168271J  R 4058 (B,18,16)  R 81/168271J  R 4056 (B,18,16)  R 81/168271J  R 4057 (B,18,16)  R 81/168271J  R 4058 (B,18,16)  R 81/168271J  R 4056 (B,18,16)  R 81/168101J  R 4056 (B,152,9)  R 81/168101J  R 4057 (B,159,8)  R 81/168101J  R 4070 (B,159,8)  R 81/168101J  R 4071 (B,10,7)  R 81/168151J  R 4072 (B,13,8)  R 81/168151J  R 4072 (B,13,8)  R 81/168151J  R 4073 (B,12,19)  R 4074 (B,10,7,6)  R 4075 (B,111,7)  R 81/168151J  R 4077 (B,157,19)  R 4077 (B,157,19)  R 81/168151J  R 4077 (B,157,19)  R 81/168391J  R 4078 (B,111,10)  R 81/168391J  R 4079 (B,157,19)  R 4079 (B,157,1							
Unit Number: Unit Number: Unit Name : Keyboard Unit  R 4051 (B,97,14)  R 4052 (B,17,7)  R 4052 (B,17,10)  R 4052 (B,17,10)  R 81/168271J  R 4053 (B,15,19)  R 81/168271J  R 4054 (B,18,16)  R 81/168271J  R 4055 (B,18,16)  R 81/168271J  R 4055 (B,18,16)  R 81/168271J  R 4056 (B,18,16)  R 81/168271J  R 4057 (B,18,16)  R 81/168271J  R 4058 (B,18,16)  R 81/168271J  R 4056 (B,18,16)  R 81/168271J  R 4057 (B,18,16)  R 81/168271J  R 4058 (B,18,16)  R 81/168271J  R 4056 (B,18,16)  R 81/168101J  R 4056 (B,152,9)  R 81/168101J  R 4057 (B,159,8)  R 81/168101J  R 4070 (B,159,8)  R 81/168101J  R 4071 (B,10,7)  R 81/168151J  R 4072 (B,13,8)  R 81/168151J  R 4072 (B,13,8)  R 81/168151J  R 4073 (B,12,19)  R 4074 (B,10,7,6)  R 4075 (B,111,7)  R 81/168151J  R 4077 (B,157,19)  R 4077 (B,157,19)  R 81/168151J  R 4077 (B,157,19)  R 81/168391J  R 4078 (B,111,10)  R 81/168391J  R 4079 (B,157,19)  R 4079 (B,157,1		131					
Unit Number : Unit Name : Keyboard Unit  R 4051 (B,17,7) R51/168271J R4052 (B,17,10) R51/168271J R4053 (B,15,19) R51/168271J R4053 (B,15,19) R51/168271J R4053 (B,15,19) R51/168271J R4055 (B,152,9) R51/168271J R4055 (B,152,9) R51/168101J  R4051 (B,79,9) IC LC75836WS R 4055 (B,152,9) R51/168101J R51/168221J R51/168221						,	
Unit Name : Keyboard Unit    R 4052		Linit Ni	wala au .		H 4042	(B,97,14)	H31/103391J
MISCELLANEOUS				1	R 4051	(B,17,7)	RS1/16S271J
IC 4001		Unit Nai	me : Keyboard l	Jnit			
C 4001					R 4053	(B,15,19)	RS1/16S271J
IC 4001		<u>MISCELL</u>	<u>ANEOUS</u>		R 4054	(B,18,16)	RS1/16S271J
IC 4021	D				R 4055	(B,152,9)	RS1/16S101J
Q 4041         (B,100,13)         Digital Transistor         DTC143EUA         R 4057         (B,159,8)         RS1/16S101J           D 4001         (A,143,6)         Diode         MALS068X         R 4058         (B,156,9)         RS1/16S221J           D 4002         (A,138,8)         Diode         MALS068X         R 4071         (B,10,7)         RS1/16S151J           D 4003         (A,142,8)         Diode         MALS068X         R 4072         (B,13,8)         RS1/16S151J           D 4041         (B,107,6)         Diode         UDZS5R6(B)         R 4074         (B,17,16)         RS1/16S151J           D 4042         (A,94,9)         White LED         NESW505C-5273         R 4075         (B,111,7)         RS1/16S391J           D 4051         (A,21,4)         LED         CL-195SR-CD         R 4076         (B,111,10)         RS1/16S151J           E         D 4052         (A,6,5)         LED         CL-195SR-CD         R 4077         (B,157,18)         RS1/16S151J           D 4053         (A,22,17)         LED         CL-195SR-CD         R 4078         (B,159,14)         RS1/16S391J           D 4054         (A,6,18)         LED         CL-195SR-CD         R 4080         (B,159,14)         RS1/16S391J <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>							
D 4001 (A,143,6) Diode D 4002 (A,138,8) Diode D 4003 (A,142,8) Diode D 4003 (A,142,8) Diode D 4003 (A,142,8) Diode D 4003 (A,142,8) Diode D 4003 (B,156,8) D 4004 (B,107,6) Diode D 4003 (B,107,6) Diode D 4003 (A,142,8) Diode D 4003 (B,107,6) Diode D 4004 (B,111,10) D 4005 (B,111,17) D 4005 (B,111,17) D 4005 (B,111,17) D 4005 (B,157,19) D 4005 (A,110,6) LED D 4005 (B,150,14) D 4005 (A,110,6) LED C 4003 (B,150,14) D 4005 (A,123,6) LED C 4005 (B,108,14) D 4005 (B,150,14) D 4005 (B,150,15) D 4005 (B,150,15) D 4005 (B,150,14) D 4005 (B,150,15) D 40			,			,	
■         D 4002         (A,138,8)         Diode         MALS068X         R 4071         (B,10,7)         R\$1/16\$151J           ■         D 4003         (A,142,8)         Diode         MALS068X         B 4072         (B,13,8)         R\$1/16\$391J           D 4021         (A,126,8)         Diode         DDZS\$FR6(B)         R 4073         (B,12,19)         R\$1/16\$151J           D 4041         (B,107,6)         Diode         DAN202U         R 4074         (B,17,16)         R\$1/16\$391J           D 4051         (A,21,4)         LED         NESW505C-5273         R 4075         (B,111,7)         R\$1/16\$391J           B 4051         (A,21,4)         LED         CL-195SR-CD         R 4076         (B,111,10)         R\$1/16\$391J           B 4052         (A,6,5)         LED         CL-195SR-CD         R 4078         (B,157,18)         R\$1/16\$391J           B 4053         (A,22,17)         LED         CL-195SR-CD         R 4079         (B,159,14)         R\$1/16\$391J           B 4055         (A,110,6)         LED         CL-195SR-CD         R 4080         (B,156,14)         R\$1/16\$391J           B 4056         (A,136,6)         LED         CL-195SR-CD         R 4091         (B,159,5)         R\$1/16\$0R0J <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
D 4003 (A,142,8) Diode MALS068X D 4021 (A,126,8) Diode UDZS5R6(B) R 4073 (B,12,19) RS1/16S151J D 4041 (B,107,6) Diode DAN202U R 4074 (B,17,16) RS1/16S391J D 4042 (A,94,9) White LED NESW505C-5273 R 4075 (B,111,7) RS1/16S391J D 4051 (A,21,4) LED CL-195SR-CD R 4076 (B,111,10) RS1/16S391J D 4052 (A,6,5) LED CL-195SR-CD R 4077 (B,157,19) RS1/16S151J D 4053 (A,22,17) LED CL-195SR-CD R 4079 (B,159,14) RS1/16S391J D 4054 (A,6,18) LED CL-195SR-CD R 4079 (B,159,14) RS1/16S391J D 4055 (A,110,6) LED CL-195SR-CD R 4090 (B,156,14) RS1/16S391J D 4056 (A,123,6) LED CL-195SR-CD R 4091 (B,159,5) RS1/16S0R0J D 4057 (A,135,6) LED CL-195SR-CD R 4091 (B,159,5) RS1/16S0R0J D 4058 (A,146,20) LED CL-195SR-CD CL-195SR							
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P 4092 (B,152,5) RS1/16S0R0J  R 4092 (B,152,5) RS1/16S0R0J  CAPACITORS  CAPACITORS  CAPACITORS  COSRCH102J25  COSRCH102J25  CAPACITORS  COSRCH102J25  COSRCH102J25  COSRCH102J25  CAPACITORS  COSRCH102J25  COSRCH102J25  CAPACITORS  COSRCH102J25  COSRCH102J25  CAPACITORS  COSRCH102J25  CAPACITORS  COSRCH102J25  COSRCH102J25  CAPACITORS  COSRCH102J25  CAPACITORS  COSRCH102J25  COSRCH102J25  CAPACITORS  COSRCH102J25  COSRCH102J25  CAPACITORS  CAPACITORS  CAPACITORS  COSRCH102J25  CAPACITORS  CAPAC							
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C 4003 (B,91,9) CKSRYB104K50  C 4003 (B,91,9) CKSRYB104K50  C 4004 (B,88,10) 10 μF CCG1171  D 4073 (A,23,17) LED CL-197HB1-D(CDE) C 4021 (B,100,9) 10 μF CCG1171  D 4074 (A,5,18) LED CL-197HB1-D(CDE)  D 4075 (A,110,4) LED CL-197HB1-D(CDE)  C 4041 (B,94,9) CKSRYB104K50			,			,	
F D 4072 (A,5,5) LED CL-197HB1-D(CDE) C 4004 (B,88,10) 10 μF CCG1171 D 4073 (A,23,17) LED CL-197HB1-D(CDE) C 4021 (B,100,9) 10 μF CCG1171 D 4074 (A,5,18) LED CL-197HB1-D(CDE) D 4075 (A,110,4) LED CL-197HB1-D(CDE) C 4041 (B,94,9) CKSRYB104K50		D 40/1	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OL 10/1101-0(ODL)			
D 4073 (A,23,17) LED CL-197HB1-D(CDE) C 4021 (B,100,9) 10 μF CCG1171 D 4074 (A,5,18) LED CL-197HB1-D(CDE) D 4075 (A,110,4) LED CL-197HB1-D(CDE) C 4041 (B,94,9) CKSRYB104K50	_	D 4072	(A.5.5) LFD	CL-197HB1-D(CDF)			
D 4074 (A,5,18) LED CL-197HB1-D(CDE) D 4075 (A,110,4) LED CL-197HB1-D(CDE) C 4041 (B,94,9) CKSRYB104K50	Г		,				
D 4075 (A,110,4) LED CL-197HB1-D(CDE) C 4041 (B,94,9) CKSRYB104K50					0 7021	(Σ,100,0) 10 μι	000.171
			, , , ,	` ,	C 4041	(B,94,9)	CKSRYB104K50
			, <i>,</i>			( )- ) <del>-</del> /	

AVH-P5950DVD/XN/RC

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	Circi	uit Symb	ol and No.	<u>Part No.</u>		Circu	<u>iit Symbo</u>	ol and No.	Part No.	
C	4071	(B,20,5)		CKSRYB104K50	0	5601	(A 113 48)	Chip Transistor	DTC124EUA	
	4072	(B,10,4)		CKSRYB104K50		5602	(A,144,46)	•	2SA1774	
		,								
	4073	(B,26,14)		CKSRYB104K50	Q	5603	(A,143,51)	Chip Transistor	DTC114EUA	
С	4074	(B,10,19)		CKSRYB104K50						Α
					Q	5604	(A, 147, 46)	Transistor	2SA1774	
С	4075	(A,112,8)		CKSRYB104K50	Q	5605	(A.146.51)	Chip Transistor	DTC114EUA	
	4076	(A,128,5)		CKSRYB104K50		5607		Chip Transistor	DTC114EUA	
	4077	(A,138,5)		CKSRYB104K50		5608	(A,140,45)		2SA1797	
	4078	(B,152,15	)	CKSRYB104K50	Q	5701	(A,144,59)	Transistor	UMF5N	
С	4079	(A,148,5)		CKSRYB104K50						
					Q	5702	(A,144,63)	Transistor	UMF5N	
С	4080	(B,159,12	)	CKSRYB104K50	Q	5703	(A,143,70)	Transistor	FMG12	
•	.000	(2,:00,:2	,			5801	(A,107,95)		2SA1774	
		1.21					, , ,			
M	<u>onitor l</u>	<u>Jnit</u>				5802	(A,103,91)		2SA1774	
$C_{\ell}$	onsists	of			Q	5803	(A, 102, 94)	Transistor	2SA1774	
Mo	onitor F	PCB			Q	5901	$(A, 134, 5)^{-1}$	Transistor	2SA1774	В
						5001	(A,109,105		UDZS5R6(B)	Ь
<u>U</u>	oper Po	<u> </u>				5002	(A,111,107)	,	UDZS5R6(B)	
L						5003	(A,110,110)		UDZS5R6(B)	
					D	5004	(A,112,110)	) Diode	UDZS5R6(B)	
Ur	nit Nur	nber:	CWN2330		D	5005	(A,122,33)	Diode	UDZS5R6(B)	
						5006	(A,114,39)		UDZS5R6(B)	
Uľ	nit Nan	ne :	Monitor Uni	τ		5007	(A,119,39)		UDZS5R6(B)	
М	SCELL /	ANEOUS				5008	(A,122,37)		UDZS5R6(B)	
IVII	SCLLLA	AINLOUS	<u> </u>		D	5101	(A,73,95) I	Diode	RB500V-40	
IC	5101	(A,66,94)	Regulator IC	S-1132B15-U5	D	5102	(A,73,100)	Diode	RB500V-40	
IC	5102	(A,66,99)	IC	S-1132B25-U5	D	5103	(A,87,85) I	Diode	U2FWJ44N	С
	5103	(A,74,75)		BD6171KV		5104	(A,87,69) I		RB160M-30	O
	5201	(A,63,31)		TA78L05F		5105	(A,83,64) I			
		,					, , ,		RB548W	
IC	5202	(A,60,43)	L-MOS And Gate	10/56108F051	D	5106	(A,81,64) I	Diode	RB548W	
IC	5203	(A,59,37)	L-MOS And Gate	TC7SET08FUS1	D	5107	(A,72,63) I	Diode	RB548W	
IC	5204	(A,44,31)	IC	OZ961ISN	D	5108	(A,70,63) I	Diode	RB548W	_
	5205	(A,40,21)		SI6544BDQ		5109	(A,68,63) I		RB548W	
	5206	(A,40,17)		SI6544BDQ						
		,				5201	(A,57,22) I		UDZS6R2(B)	
IC	5301	(A,81,110)	) 10	NJM2505AF	D	5202	(A,55,46) I	Diode	1SS355	
IC	5401	(A,37,92)	IC	TC90A96BFGSING	D	5203	(A,62,40)		RB751V-40	
IC	5501	(A,10,100	) IC	M62343FP	D	5204	(A,47,20) I	Diode	HZU6R2(B3)	
IC	5502	(A,12,79)	IC	TC7SET04FUS1		5205	(A,47,15) I		HZU6R2(B3)	D
	5503	(A,14,87)		NJM2100V		5206	(A,57,20) I		UDZS8R2(B)	_
	5504	(A,56,83)		TC7SET04FUS1						
IC	3304	(A,36,63)	10	10/36104F031	D	5207	(A,63,6) D	loae	MA143	
			. =							
IC	5505	(A,15,74)	IC	TC7S66FU	D	5208	(A,61,6) D	iode	HZU6R2(B3)	
IC	5506	(A,57,76)	IC	TC74VHC04FTS1	D	5209	(A,69,5) D	iode	MA143	
IC	5507	(A,11,66)	IC	NJM082BV	D	5601	(A,124,47)	Diode	MA111	
IC	5602	(A,121,47		S-80827CNNB-B8M		5701	(A,142,67)		MA111	
	5603	(A,119,65		PEG333A		5901	(A,124,6) I		TPS850	
10	3003	(A,119,00	) 10	I EdoooA	D	5901	(A, 124,6)	C	175050	
	E004	/A 40F 05	\ 10	0.0000000000000000000000000000000000000	_				<b>a.</b> .a== : = :==	
	5604	(A,135,66	,	S-93C56BD0I-J8		5931	(A,24,8) LI		CL-197HB1-D(CDE)	
IC	5801	(A,138,94	) IC	PEH098A	D	5932	(A,9,8) LE	D	CL-197HB1-D(CDE)	
IC	5802	(A,116,91)	) IC	PDC149A	D	5933	(A,142,8) I	LED	CL-197HB1-D(CDE)	
Q	5101	(A,75,63)	Chip Transistor	DTC114EUA		5934	(A,156,8) I	FD	CL-197HB1-D(CDE)	Е
	5102	(A,85,80)	•	RSQ035P03		5951	(A,24,7) LI		CL-195SR-CD	
~	0.02	(, 1,00,00)				3331	(17,24,7)		OL-1000H-OD	
^	5103	(1 01 70)	CCT	RSQ035P03	_	5050	(4 0 7) : -	D	01 40500 00	
		(A,84,73)				5952	(A,9,7) LE		CL-195SR-CD	
	5201	,	Transistor	UMX2N		5953	(A,142,7) I		CL-195SR-CD	
	5202	,	Transistor	2SC4617	D	5954	(A,156,7) I	LED	CL-195SR-CD	
Q	5203	(A,57,26)	Transistor	2SC4617	D	5971	(A,79,13) I	LED	CL-197HB1-D(CDE)	
Q	5204	(A,55.41)	Transistor	2SA1774		5972	(A,87,13) I		CL-197HB1-D(CDE)	_
_		, ,,,			٥	55.2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del>_</del>	-1	
$\circ$	5205	(A 50 10)	Transistor	2SC4617	_	E001	(4 70 44)	ED.	CL 1050D CD	
			Transistor			5981	(A,79,11) L		CL-195SR-CD	
	5206	,	Transistor	2SC4617		5982	(A,87,11) L		CL-195SR-CD	
	5301		) Transistor	2SC4081	L	5101	(A,55,106)	Inductor	CTF1635	
Q	5302	(A,62,111)	Transistor	2SA1576A	L	5102	(A,93,95)	Choke Coil 10 µH	CTH1249	_
Q	5401	(A,39,112	) Transistor	2SC4617		5103	, , ,	Choke Coil 18 µH		F
_		, ,, <u>-</u> ,			_	5.50	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	σσ σσιι το μιτ		
$\circ$	5501	(A,9,55)	Francistor	UMX2N		E104	(4 70 54)	nduotor	CTE1400	
		, , ,				5104	(A,78,51) I		CTF1488	
Q	5502	(A,13,55)	Transistor	UMT2N	L	5105	(A,89,65)	Choke Coil 68 µH	ICTH1318	
				ΔVH-P595	אטט	D/XN/RC				

AVH-P5950DVD/XN/RC 7 8 183

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	Circ	<u>cuit Symbol and No.</u>	Part No.	Circ	uit Symbol and No.	<u>Part No.</u>
	L 5107	(A,84,61) Inductor	DTL1096	L 5446	(A,39,77) Ferrite Bead	CTF1528
	L 5108	(A,16,112) Inductor	CTF1635	L 5447	(A,39,75) Ferrite Bead	CTF1528
	L 5100	(A,58,106) Inductor	CTF1635	L 5448	(A,38,77) Ferrite Bead	CTF1528
	L 5109	(A,58,100) inductor	C11-1035	L 3440	(A,36,77) Femile Beau	C11-1526
Α						
	L 5110	(A,60,89) Inductor	CTF1635	L 5449	(A,38,75) Ferrite Bead	CTF1528
	L 5111	(A,60,92) Inductor	CTF1635	L 5450	(A,37,77) Ferrite Bead	CTF1528
	L 5112	(A,57,101) Inductor	CTF1635	L 5451	(A,37,75) Ferrite Bead	CTF1528
	L 5113	(A,84,97) Choke Coil 18 μ	H CTH1250	L 5452	(A,36,74) Inductor	CTF1306
	L 5114	(A,65,84) Inductor	CTF1635	L 5453	(A,35,75) Ferrite Bead	CTF1528
	2 0111	(71,00,01) Inductor	011 1000	2 0 100	(71,00,70) 1 onite Boad	011 1020
	I 5115	(A 02 64) Industry	OTE1625	1 5454	(A 2F 77) Family Book	OTE1500
-	L 5115	(A,93,64) Inductor	CTF1635	L 5454	(A,35,77) Ferrite Bead	CTF1528
	L 5116	(A,63,63) Inductor	CTF1635	L 5455	(A,34,73) Ferrite Bead	CTF1528
	L 5201	(A,78,24) Coil	CTH1338	L 5456	(A,33,77) Ferrite Bead	CTF1528
	L 5202	(A,57,40) Inductor	CTF1306	L 5457	(A,33,75) Ferrite Bead	CTF1528
	L 5301	(A,69,112) Inductor	LCKAW220J2520	L 5458	(A,33,73) Ferrite Bead	CTF1528
		,			,	
_	L 5302	(A,65,112) Inductor	LCKAW270J2520	L 5459	(A,28,75) Ferrite Bead	CTF1528
В	L 5303	(A,59,103) Inductor	LCKAW101J2520	L 5460	(A,29,77) Ferrite Bead	CTF1528
					,	
	L 5304	(A,79,107) Inductor	CTF1379	L 5461	(A,27,77) Ferrite Bead	CTF1528
	L 5401	(A,48,110) Inductor	CTF1306	L 5462	(A,25,75) Ferrite Bead	CTF1528
	L 5402	(A,42,113) Inductor	CTF1306	L 5463	(A,26,77) Ferrite Bead	CTF1528
	L 5403	(A,40,113) Inductor	CTF1306	L 5464	(A,25,76) Ferrite Bead	CTF1528
	L 5404	(A,34,112) Inductor	CTF1306	L 5465	(A,25,77) Ferrite Bead	CTF1528
	L 5405	(A,24,110) Inductor	CTF1306	L 5466	(A,48,75) Inductor	CTF1306
	L 5406	(A,33,112) Inductor	CTF1306	L 5467	(A,31,74) Inductor	CTF1306
		, , ,				
	L 5407	(A,26,110) Inductor	CTF1306	L 5468	(A,30,74) Inductor	CTF1306
	L 5408	(A,36,112) Inductor	CTF1306	L 5469	(A,50,74) Inductor	CTF1306
С	L 5409	(A,52,108) Inductor	CTF1306	L 5470	(A,42,74) Inductor	CTF1306
	L 5411	(A,50,110) Inductor	CTF1306	L 5471	(A,41,74) Inductor	CTF1306
	L 5412	(A,54,103) Inductor	CTF1306	L 5472	(A,18,78) Inductor	LCKAW101J2520
	L 5413	(A,20,104) Inductor	CTF1306	L 5501	(A,15,78) Inductor	CTF1306
	L 0410	(71,20,104) Inductor	011 1000	L 0001	(71, 10,70) maddid	011 1000
	L 5414	(A 01 100) Industor	CTF1306	L 5502	(A 9 94) Industor	I CK AW101 10500
		(A,21,102) Inductor			(A,8,84) Inductor	LCKAW101J2520
	L 5415	(A,21,101) Inductor	CTF1306	L 5503	(A,9,75) Inductor	LCKAW101J2520
_	L 5416	(A,18,100) Inductor	CTF1306	L 5504	(A,53,62) Inductor	CTF1306
	L 5417	(A,17,99) Inductor	CTF1306	L 5505	(A,22,70) Inductor	DTL1096
	L 5418	(A,54,100) Inductor	CTF1306	L 5506	(A,15,65) Inductor	DTL1096
	L 5419	(A,20,98) Inductor	CTF1306	L 5508	(A,49,72) Inductor	CTF1306
	L 5420	(A,54,97) Inductor	CTF1306	L 5509	(A,28,70) Inductor	CTF1635
D	L 5421	(A,16,97) Inductor	CTF1306	L 5510	(A,20,70) Inductor	CTF1635
D		, , ,			· · · · /	CTF1635
	L 5422	(A,19,96) Inductor	CTF1306	L 5511	(A,62,81) Inductor	
	L 5423	(A,15,95) Inductor	CTF1306	L 5602	(A,108,59) Inductor	CTF1306
	L 5424	(A,15,94) Inductor	CTF1306	L 5603	(A,136,60) Inductor	CTF1306
	L 5425	(A,54,94) Inductor	CTF1306	L 5604	(A,101,66) Inductor	CTF1306
	L 5426	(A,19,93) Inductor	CTF1306	L 5605	(A,132,48) Inductor	CTF1488
-	L 5427	(A,19,91) Inductor	CTF1306	L 5701	(A,139,60) Inductor	CTF1379
	L 5428	(A,54,91) Inductor	CTF1306	L 5801	(A,104,77) Inductor	LCKAW2R2J2520
	2 0 .20	(7,01,01) madeter	011 1000	L 0001	(71, 101,77) Inductor	2010 11121 1202020
	L 5429	(A,19,90) Inductor	CTF1306	L 5802	(A,139,51) Inductor	CTF1488
		, , ,	CTF1306 CTF1306			
	L 5430	(A,19,88) Inductor		L 5803	(A,108,77) Inductor	LCKAW2R2J2520
_	L 5431	(A,54,88) Inductor	CTF1306	L 5804	(A,143,73) Inductor	CTF1395
E	L 5432	(A,54,85) Inductor	CTF1306	L 5901	(A,117,7) Inductor	LCKBW100K2520
	L 5433	(A,19,87) Inductor	CTF1306	T 5201	(B,51,10) Transformer	CTT1119
	L 5434	(A,19,84) Inductor	CTF1306	TH5601	(A,106,56) Thermistor	CCX1051
	L 5435	(A,19,83) Inductor	CTF1306	X 5401	(A,45,112) Crystal Resona	ator 42 MHz CSS1604
	L 5436	(A,19,82) Inductor	CTF1306	X 5601	(A,119,52) Ceramic Resonat	
	L 5437	(A,54,83) Inductor	CTF1306	S 5921	(A,142,4) Push Switch	CSG1155
-		, , ,			,	CSG1155
	L 5438	(A,19,80) Inductor	CTF1306	S 5922	(A,9,4) Push Switch	0301100
		/A 47 76\ 7	0754566		(4.64.4) 5 4.5 ***	00044==
	L 5439	(A,47,73) Ferrite Bead	CTF1528	S 5923	(A,24,4) Push Switch	CSG1155
	L 5440	(A,47,75) Ferrite Bead	CTF1528	S 5924	(A,157,4) Push Switch	CSG1155
	L 5441	(A,46,73) Ferrite Bead	CTF1528	VR5201	(A,35,28) Semi-fixed 22 k	Ω(B)CCP1491
_	L 5442	(A,46,75) Ferrite Bead	CTF1528	<b> ∱FU5101</b>	(A,83,51) Fuse 1.25 A	CEK1255
F	L 5443	(A,45,74) Ferrite Bead	CTF1528	<b>⚠</b> FU5201	(A,72,23) Fuse 1.25 A	CEK1255
	L 0440	(, 1, 70, 1 7) 1 CITIC DOLU	J11 1020		(,, _ , _ , _ , _ , _ , _ , _ , _	JEITHEOU
	L 5444	(A,45,76) Ferrite Bead	CTF1528	DECICTO	De.	
		, , ,		RESISTO	no no	
	L 5445	(A,43,74) Inductor	CTF1306			
			A\/H-P595	SODVD/XN/RC		

AVH-P5950DVD/XN/RC

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•	Circu	₅ uit Symbol and No.	6 <u>Part No.</u>	-	Circu	<sub>7</sub> ■ uit Symbol and No.	8 <u>Part No.</u>	•
	5005	(A,92,47)	RS1/16S0R0J		5215	(A,45,20)	RS1/16S103J	
	5006	(A,94,47)	RS1/16S0R0J		5216	(A,45,16)	RS1/16S103J	
	5007	(A,99,50)	RS1/16S0R0J		5217	(A,57,17)	RS1/16S103J	Α
	5008	(A,101,50)	RS1/16S0R0J		5218	(A,63,15)	RS1/16S621J	
R	5009	(A,143,40)	RS1/16S0R0J	R	5219	(A,57,18)	RS1/16S104J	
	5010	(A,142,40)	RS1/16S0R0J		5220	(A,61,21)	RS1/16S473J	
	5011	(A,115,106)	RS1/16S101J		5221	(A,61,12)	RS1/16S621J	
	5012	(A,114,106)	RS1/16S101J		5222	(A,60,15)	RS1/16S101J	_
	5013	(A,112,105)	RS1/16S101J		5223	(A,58,15)	RS1/16S101J	
R	5014	(A,111,105)	RS1/16S101J	R	5224	(A,59,9)	RS1/16S821J	
	5015	(A,97,111)	RS1/16S101J		5225	(A,58,6)	RS1/16S471J	
	5101	(A,70,94)	RS1/16SS684J		5227	(A,38,31)	RS1/16S1001D	
	5102	(A,70,99)	RS1/16SS474J		5301	(A,77,112)	RS1/16S512J	
	5103	(A,70,89)	RS1/16S0R0J		5302	(A,77,110)	RS1/16S104J	В
R	5104	(A,72,90)	RS1/16S6801D	R	5303	(A,74,107)	RS1/16S153J	
	5105	(A,89,94)	RS1/16S0R0J		5304	(A,71,107)	RS1/16S104J	
	5106	(A,80,88)	RS1/16S0R0J		5305	(A,69,108)	RS1/16S681J	
	5107	(A,75,90)	RS1/16S201J		5306	(A,71,109)	RS1/16S471J	
	5108	(A,81,86)	RS1/16S1001D		5307	(A,64,109)	RS1/16S272J	
R	5109	(A,71,88)	RS1/16S1001D	R	5308	(A,60,111)	RS1/16S391J	•
	5110	(A,75,88)	RS1/16S682J		5311	(A,88,108)	RS1/16S101J	
	5111	(A,66,81)	RS1/16S5100F		5312	(A,88,110)	RS1/16S101J	
	5112	(A,81,84)	RS1/16S1600D		5401	(A,44,108)	RS1/16SS391J	
	5113	(A,78,87)	RS1/16S102J		5402	(A,59,113)	RS1/16S0R0J	
R	5114	(A,69,81)	RS1/16S0R0J	R	5403	(A,45,108)	RS1/16SS105J	С
R	5115	(A,78,85)	RS1/16S2700D	R	5404	(A,39,110)	RS1/16SS331J	
	5116	(A,66,82)	RS1/16S2001F		5405	(A,37,111)	RS1/16SS152J	
	5117	(A,73,85)	RS1/16S684J		5406	(A,21,106)	RS1/16S0R0J	
	5118	(A,77,82)	RS1/16S333J		5407	(A,18,102)	RS1/16S331J	
	5119	(A,73,82)	RS1/16S123J		5408	(A,15,105)	RS1/16S101J	
R	5120	(A,82,80)	RS1/16S273J	В	5410	(A,13,105)	RS1/16S101J	_
	5121	(A,82,83)	RS1/16S150J		5411	(A,13,95)	RS1/16S470J	
	5122	(A,87,72)	RS1/16S150J		5412	(A,13,94)	RS1/16S470J	
	5123	(A,82,75)	RS1/16S563J		5413	(A,16,91)	RS1/16SS471J	
	5124	(A,74,67)	RS1/16S5102D		5414	(A,16,93)	RS1/16SS333J	
R	5125	(A,68,68)	RS1/16S0R0J	R	5415	(A,14,97)	RS1/16SS222J	D
	5126	(A,67,70)	RS1/16S1002D		5416	(A,14,93)	RS1/16SS152J	
	5127	(A,76,65)	RS1/16S4300D		5417	(A,21,92)	RS1/16SS473J	
	5128	(A,66,69)	RS1/16S1802D		5418	(A,44,70)	RAB4CQ221J	
	5129	(A,77,67)	RS1/16S1802D		5419	(A,41,70)	RAB4CQ221J	
R	5130	(A,66,66)	RS1/16S2202D	R	5420	(A,35,70)	RAB4CQ221J	
	5131	(A,66,63)	RS1/16S0R0J		5421	(A,22,76)	RAB4CQ221J	
	5132	(A,78,64)	RS1/16S3303D		5422	(A,47,71)	RS1/16SS221J	
	5133	(A,81,69)	RS1/16S0R0J		5423	(A,46,70)	RS1/16SS221J	
R	5134	(A,79,61)	RS1/16S0R0J	R	5424	(A,38,73)	RS1/16SS221J	
R	5135	(A,76,67)	RS1/16S2703D	R	5425	(A,37,73)	RS1/16SS221J	E
	5201	(A,63,43)	RS1/16S103J		5426	(A,33,71)	RS1/16SS221J	
	5202	(A,57,24)	RS1/16S103J		5427	(A,32,71)	RS1/16SS221J	
	5203	(A,60,24)	RS1/16S104J		5428	(A,30,72)	RS1/16SS221J	
	5204	(A,60,45)	RS1/16S103J		5429	(A,28,73)	RS1/16SS221J	
R	5205	(A,56,29)	RS1/16S473J	R	5430	(A,27,75)	RS1/16SS221J	
	5206	(A,56,44)	RS1/16S472J		5501	(A,9,106)	RAB4CQ221J	_
	5207	(A,58,28)	RS1/16S105J		5503	(A,12,81)	RS1/16S101J	
	5208	(A,54,44)	RS1/16S473J	R	5504	(A,17,75)	RS1/16SS681J	
R	5209	(A,56,38)	RS1/16S333J	R	5506	(A,10,87)	RS1/16S101J	
R	5210	(A,49,37)	RS1/16S513J	R	5507	(A,13,71)	RS1/16SS472J	F
	5211	(A,62,37)	RS1/16S103J	R	5508	(A,8,65)	RS1/16S3302D	Г
R	5212	(A,53,27)	RS1/16S105J	R	5509	(A,57,64)	RS1/16S6800D	
	5213	(A,59,40)	RS1/16S102J	R	5510	(A,11,60)	RS1/16S223J	
R	5214	(A,35,30)	RS1/16S5102D		5512	(A,52,64)	RS1/16S27R0D	
•		5	6	AVH-P5950DV	D/XN/RC	7 -	8	185

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	<u>Circ</u>	cuit Symbol and No.	Part No.	<u>Cir</u>	cuit Symbol and No.	Part No.
	R 5513	(A,54,64)	RS1/16S10R0D	R 5640	(A,110,75)	RS1/16S102J
	R 5514	(A,56,63)	RS1/16S1000D RS1/16S82R0F	R 5641	(A,117,76)	RAB4CQ102J RS1/16S104J
Α	R 5515 R 5516	(A,59,66) (A,58,70)	RS1/16S56R0D	R 5642 R 5643	(A,108,68) (A,112,75)	RS1/16S104J RS1/16S473J
	R 5517	(A,50,70) (A,57,70)	RS1/16S47R0D	R 5644	(A,112,73) (A,108,71)	RS1/16S103J
	R 5518	(A,56,70)	RS1/16S36R0D	R 5646	(A,103,65)	RS1/16S473J
	R 5519	(A,54,70)	RS1/16S33R0F	R 5647	(A,140,42)	RS1/16S103J
_	R 5520	(A,53,70)	RS1/16S27R0D	R 5648	(A,140,40)	RS1/16S821J
	R 5521	(A,51,70)	RS1/16S1800D	R 5649	(A,115,50)	RS1/16S473J
	R 5522	(A,50,70)	RS1/16S82R0F	R 5650	(A,113,53)	RS1/16S473J
	R 5523	(A,49,70)	RS1/16S12R0F	R 5651	(A,122,52)	RS1/16S473J
	R 5524	(A,8,62)	RS1/16S5602D	R 5652	(A,130,57)	RS1/16S470J
	R 5525	(A,9,60)	RS1/16S101J	R 5653	(A,133,55)	RS1/16S470J
В	R 5526 R 5527	(A,8,52)	RS1/16SS153J	R 5654 R 5655	(A,130,70) (A,115,53)	RS1/16S473J
		(A,14,52)	RS1/16S153J			RS1/16S470J
	R 5528	(A,11,55)	RS1/16SS0R0J	R 5656	(A,131,68)	RS1/16S470J
	R 5529	(A,12,52)	RS1/16S0R0J	R 5657	(A,132,62)	RS1/16S221J
	R 5530	(A,32,66)	RS1/16SS102J	R 5658	(A,131,67)	RS1/16S221J
	R 5531 R 5532	(A,9,58)	RS1/16S100J RS1/16SS100J	R 5659 R 5660	(A,131,73) (A,135,71)	RS1/16S473J
_		(A,11,57)				RS1/16S221J
	R 5533	(A,9,52)	RS1/16S0R0J	R 5668	(A,133,53)	RS1/16S473J
	R 5534	(A,11,52)	RS1/16S0R0J	R 5669	(A,136,57)	RS1/16S473J
	R 5601	(A,144,48)	RS1/16S103J	R 5671	(A,130,73)	RS1/16S470J
	R 5602	(A,144,44)	RS1/16S473J	R 5701	(A,148,64)	RS1/16S0R0J
С	R 5603	(A,112,50)	RS1/16S103J	R 5702	(A,147,59)	RS1/16S0R0J
	R 5604	(A,120,45)	RS1/16S0R0J	R 5703	(A,142,60)	RS1/16S103J
	R 5605	(A,147,48)	RS1/16S103J	R 5704	(A,142,64)	RS1/16S103J
	R 5606	(A,147,44)	RS1/16S473J	R 5705	(A,140,60)	RS1/16S103J
	R 5607	(A,125,46)	RS1/16S124J	R 5706	(A,140,64)	RS1/16S103J
	R 5608	(A,117,47)	RS1/16S102J	R 5707	(A,145,61)	RS1/16S105J
	R 5609	(A,109,49)	RS1/16S473J	R 5708	(A,145,65)	RS1/16S105J
	R 5610	(A,107,51)	RS1/16S221J	R 5709	(A,146,71)	RS1/16S102J
	R 5611	(A,108,48)	RS1/16S221J	R 5710	(A,146,69)	RS1/16S102J
	R 5612	(A,110,47)	RS1/16S221J	R 5804	(A,119,101)	RAB4CQ101J
D	R 5613	(A,112,53)	RS1/16S471J	R 5805	(A,106,99)	RS1/16S102J
	R 5614	(A,108,55)	RS1/16S471J	R 5806	(A,104,97)	RS1/16S102J
	R 5615	(A,108,57)	RS1/16S471J	R 5807	(A,103,97)	RS1/16S102J
	R 5616	(A,126,50)	RS1/16S471J	R 5808	(A,124,103)	RS1/16S473J
	R 5617	(A,125,54)	RS1/16S471J	R 5811	(A,114,103)	RS1/16S471J
ī	R 5618	(A,127,50)	RS1/16S471J	R 5812	(A,112,102)	RS1/16S473J
-	R 5619	(A,127,54)	RS1/16S471J	R 5813	(A,148,80)	RS1/16S101J
	R 5620	(A,128,54)	RS1/16S471J	R 5814	(A,146,108)	RS1/16SS101J
	R 5621	(A,130,54)	RS1/16S470J	R 5815	(A,146,80)	RS1/16S473J
	R 5622	(A,107,60)	RS1/16S0R0J	R 5816	(A,142,80)	RS1/16S101J
	R 5623	(A,131,52)	RS1/16S470J	R 5817	(A,141,106)	RS1/16SS101J
Ε	R 5624	(A,105,60)	RS1/16S105J	R 5818	(A,104,87)	RS1/16S1500D
	R 5625	(A,105,58)	RS1/16S105J	R 5819	(A,104,85)	RS1/16S0R0J
	R 5626	(A,132,58)	RS1/16S471J	R 5820	(A,127,96)	RAB4CQ101J
	R 5627	(A,133,60)	RS1/16S471J	R 5821	(A,141,80)	RS1/16S101J
	R 5628	(A,136,58)	RS1/16S473J	R 5822	(A,102,87)	RS1/16S1500D
	R 5629	(A,131,62)	RS1/16S221J	R 5823	(A,102,85)	RS1/16S0R0J
	R 5630	(A,103,57)	RS1/16S153J	R 5824	(A,127,93)	RAB4CQ101J
	R 5632	(A,103,61)	RS1/16S473J	R 5825	(A,140,108)	RS1/16S473J
	R 5633	(A,103,60)	RS1/16S473J	R 5826	(A,101,87)	RS1/16S1500D
	R 5634	(A,132,71)	RS1/16S473J	R 5827	(A,101,85)	RS1/16S0R0J
_	R 5635	(A,102,64)	RS1/16S473J	R 5828	(A,139,108)	RS1/16S473J
F	R 5636	(A,139,71)	RS1/16S473J	R 5829	(A,136,78)	RS1/16SS101J
	R 5637	(A,139,66)	RS1/16S103J	R 5831	(A,137,108)	RS1/16S473J
	R 5638	(A,131,65)	RS1/16S103J	R 5832	(A,126,88)	RAB4CQ101J
	R 5639	(A,103,75)	RS1/16S471J	R 5833	(A,105,90)	RS1/16S680J
	186	_	AVH-P5950DVE	J/XN/RC	_	<u> </u>
		1	2		3	4

	۵.	5	6	-	•	7	8	-
	Circ	uit Symbol and No.	Part No.			cuit Symbol and No.	Part No.	
В	5834	(A,130,79)	RS1/16SS101J	2	CAPACIT	<u>URS</u>		
	5835	(A,136,107)	RS1/16SS101J		0 5004	(4.404.04)	01/00/00/00/00	
		(A,126,85)	RAB4CQ101J		C 5001	(A,121,31)	CKSRYB102K50	
	5836	, ,			C 5002	(A,116,39)	CKSRYB102K50	Α
	5837	(A,130,80)	RS1/16SS0R0J		C 5003	(A,120,39)	CKSRYB102K50	
R	5838	(A,131,106)	RS1/16SS101J		C 5004	(A,121,35)	CKSRYB102K50	
					C 5101	(A,56,110)	CKSRYB105K16	
R	5839	(A,107,85)	RS1/16S1501D			, , ,		
R	5840	(A,130,81)	RS1/16SS0R0J		C 5102	(A,22,110)	CSZS100M10	
R	5841	(A,130,82)	RS1/16SS101J		C 5103	(A,57,110)	CKSRYB105K16	
	5842	(A,125,81)	RS1/16S101J					
	5843	(A,119,80)	RAB4CQ101J		C 5104	(A,76,96)	CKSSYB104K10	_
п	3043	(A,119,00)	HAD4CQ 1013		C 5105	(A,60,87)	CSZS100M16	
_		/A // A	5.5.00		C 5106	(A,57,92)	CSZSR220M10	
	5844	(A,115,81)	RAB4CQ101J					
	5845	(A,111,81)	RAB4CQ101J		C 5107	(A,79,98)	CSZSR330M10	
R	5846	(A,123,81)	RS1/16S470J		C 5108	(A,57,97)	CSZSR220M10	
R	5847	(A,121,81)	RS1/16S470J		C 5109	(A,65,91)	CSZS100M10	В
R	5848	(A,124,81)	RS1/16S101J		C 5110	(A,63,89)	CKSSYB104K10	5
		( ', '= ', ' ')						
ь	5849	(A,109,101)	RS1/16S0R0J		C 5111	(A,65,103)	CSZS100M10	
		,						
	5850	(A,122,103)	RS1/16S473J		C 5112	(A,65,104)	CKSSYB104K10	
	5852	(A,122,104)	RS1/16S103J		C 5113	(A,70,92)	CKSSYB104K10	
	5853	(A,145,115)	RS1/16S0R0J		C 5114	(A,71,95)	CKSRYB105K16	_
R	5855	(A,11,116)	RS1/16S0R0J		C 5115	(A,70,97)	CKSSYB104K10	
					C 5116	(A,71,100)	CKSRYB105K16	
R	5856	(A,122,100)	RS1/16S0R0J		0 0110	(71,71,100)	CROTTETOORTO	
	5857	(A,143,80)	RS1/16S101J		O 5117	(4.04.80)	CC7C100M16	
	5858	(A,145,80)	RS1/16S101J		C 5117	(A,94,89)	CSZS100M16	
					C 5118	(A,95,88)	CKSRYB105K16	
	5859	(A,133,107)	RS1/16SS101J		C 5119	(A,65,86)	CKSRYB104K50	
R	5860	(A,132,108)	RS1/16SS101J		C 5120	(A,20,110)	CSZS100M10	С
					C 5121	(A,73,88)	CKSRYB473K50	
R	5861	(A,131,108)	RS1/16SS101J			( , -,,		
R	5862	(A,145,106)	RS1/16SS101J		C 5122	(A,89,89) 68 µF/6.3 V	CCH1440	
	5863	(A,145,108)	RS1/16SS101J					
	5864	(A,144,106)	RS1/16SS101J		C 5123	(A,78,88)	CCSRCH331J50	
					C 5124	(A,92,90)	CKSRYB104K50	
н	5865	(A,131,79)	RS1/16SS101J		C 5125	(A,70,84)	CKSRYB104K50	
					C 5126	(A,68,85)	CSZS100M16	_
	5866	(A,133,80)	RS1/16SS101J					
R	5867	(A,133,78)	RS1/16SS101J		C 5127	(A,75,85)	CKSRYB103K50	
R	5868	(A,135,80)	RS1/16SS101J		C 5128	(A,77,85)	CCSRCH101J50	
R	5869	(A,134,78)	RS1/16SS101J		C 5130	(A,78,82)	CKSRYB103K50	
	5870	(A,134,80)	RS1/16SS101J			(A,75,82)	CKSRYB393K50	
• • •		(1,101,00)			C 5131	· · · · /		D
В	E071	(A,144,108)	DC1/16CC101 I		C 5132	(A,71,84)	CKSRYB393K50	5
	5871		RS1/16SS101J					
	5872	(A,143,106)	RS1/16SS101J		C 5133	(A,93,81)	CKSRYB103K50	
	5873	(A,142,108)	RS1/16SS101J		C 5134	(A,80,80)	CKSRYB104K50	
R	5874	(A,135,108)	RS1/16SS101J		C 5135	(A,88,80) 10 μF	CCG1223	
R	5875	(A,135,107)	RS1/16SS101J		C 5136	(A,66,78)	CKSRYB393K50	
					C 5137	(A,91,80) 10 μF	CCG1223	
R	5876	(A,134,108)	RS1/16SS101J		5 5.07	(- 1,0 1,00) 10 μ1	JJJ.LLU	
	5878	(A,127,100)	RS1/16S0R0J		C 5120	(A 79 52)	CKSDVB334K16	
	5901	(A,136,11)	RS1/16S104J		C 5138	(A,78,53)	CKSRYB224K16	
	5902	(A,134,9)	RS1/16S103J		C 5139	(A,81,78)	CKSRYB105K16	
		,			C 5140	(A,81,77)	CKSRYB102K50	
н	5903	(A,134,8)	RS1/16S0R0J		C 5141	(A,91,73) 10 μF	CCG1223	
					C 5143	(A,88,73)	CKSRYB103K50	_
R	5904	(A,128,8)	RS1/16S0R0J					E
R	5905	(A,128,6)	RS1/16S822J		C 5144	(A,66,74)	CKSRYB102K50	
R	5931	(A,15,7)	RS1/16S151J		C 5145	(A,80,75)	CKSRYB104K50	
	5932	(A,18,7)	RS1/16S391J			,	CKSRYB105K16	
	5933		RS1/16S151J		C 5146	(A,65,71)		
п	J3J3	(A,151,7)	1101/1001010		C 5147	(A,82,71)	CKSRYB105K16	
_	F00.1	(4.440.7)	D04/400004 :		C 5148	(A,80,71)	CKSRYB103K50	_
	5934	(A,148,7)	RS1/16S391J					
	5951	(A,15,6)	RS1/16S271J		C 5149	(A,71,68)	CKSRYB104K50	
R	5952	(A,18,6)	RS1/16S271J		C 5150	(A,76,60)	CKSYB475K16	
	5953	(A,151,6)	RS1/16S271J		C 5151	(A,81,67)	CKSRYB472K50	
	5954	(A,148,6)	RS1/16S271J		C 5151	• • • •	CKSRYB472K50	
		(-,, ,				(A,79,67)		
п	5071	(4 84 0)	DQ1/16Q1E1 I		C 5153	(A,96,66)	CKSRYB104K50	
	5971	(A,84,9)	RS1/16S151J					F
	5972	(A,84,6)	RS1/16S391J		C 5154	(A,76,58)	CKSRYB103K50	
	5981	(A,86,9)	RS1/16S271J		C 5155	(A,72,66)	CKSRYB104K50	
R	5982	(A,86,6)	RS1/16S271J		C 5156	(A,71,66)	CKSRYB104K50	
						•		

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	<u>Cir</u>	cuit Symbol and No.	Part No.	<u>Circ</u>	uit Symbol and No.	<u>Part No.</u>
	C 5157	(A,69,66)	CKSRYB104K50	C 5416	(A,38,108)	CKSSYB104K10
	C 5158	(A,95,68) 33 μF/10 V	CCH1586	C 5417	(A,27,112)	CKSSYB104K10
	C 5159	(A,94,62)	CKSRYB105K16	C 5418	(A,26,113)	CKSSYB104K10
Α	C 5160	(A,81,61)	CKSRYB104K50	C 5419	(A,20,110) (A,37,108)	CKSSYB104K10
	C 5161	(A,83,61)	CKSQYF105Z25	C 5420	(A,36,108)	CKSSYB104K10
	C 5163	(A,70,60)	CKSQYF105Z25	C 5421	(A,25,113)	CKSSYB104K10
	C 5164	(A,68,60)	CKSQYF105Z25	C 5422	(A,24,113)	CKSSYB104K10
_	C 5165	(A,66,60)	CKSQYF225Z16	C 5423	(A,34,108)	CKSSYB104K10
	C 5166	(A,64,60)	CKSQYF225Z16	C 5424	(A,16,106)	CKSSYB104K10
	C 5167	(A,84,68)	CKSRYB105K16	C 5425	(A,18,108)	CKSSYB104K10
	C 5168 C 5169	(A,68,66) (A,83,58)	CKSRYB105K16 CKSQYF105Z25	C 5426 C 5427	(A,18,105) (A,19,106)	CKSSYB104K10 CKSSYB104K10
	C 5170	(A,62,60)	CKSQYF105Z25	C 5428	(A,32,108)	CKSSYB104K10
В	C 5201	(A,80,30) 10 μF	CCG1223	C 5429	(A,28,109)	CKSSYB104K10
В	C 5202	(A,80,34) 10 µF	CCG1223	C 5430	(A,27,109)	CKSSYB104K10
	C 5204	(A,64,27)	CKSRYB104K50	C 5431	(A,28,108)	CKSSYB104K10
	C 5205	(A,60,30)	CKSRYB105K16	C 5432	(A,26,108)	CKSSYB104K10
	C 5206	(A,57,43)	CKSRYB104K50	C 5433	(A,24,108)	CKSSYB104K10
	C 5207	(A,50,29)	CKSRYB104K50	C 5434	(A,52,105)	CKSSYB104K10
_	C 5208	(A,50,33)	CKSRYB104K50	C 5435	(A,52,103)	CKSSYB104K10
	C 5209	(A,50,27)	CKSRYB105K16	C 5436	(A,22,104)	CKSSYB104K10
	C 5211	(A,50,30)	CKSRYB474K16	C 5437	(A,19,99)	CKSSYB104K10
	C 5212	(A,50,34)	CKSRYB332K50	C 5438	(A,52,100)	CKSSYB104K10
_	C 5213	(A,50,32)	CKSRYB105K16	C 5439	(A,22,98)	CKSSYB104K10 CKSSYB104K10
С	C 5214 C 5215	(A,51,37) (A,59,35)	CKSRYB152K50 CKSRYB104K50	C 5440 C 5441	(A,52,98) (A,21,96)	CKSSYB104K10
	C 5216	(A,53,29)	CKSRYB103K50	C 5442	(A,52,94)	CKSSYB104K10
	C 5217	(A,39,33)	CKSRYB473K50	C 5443	(A,19,94)	CKSSYB104K10
	C 5218 C 5219	(A,38,28) (A,38,30)	CKSRYB473K50 CCSRCH221J50	C 5444 C 5445	(A,21,93)	CKSSYB104K10 CKSSYB104K10
	C 5219	(A,42,24) 10 μF	CCG1223	C 5445 C 5447	(A,52,92) (A,21,90)	CKSSYB104K10
	C 5221	(A,43,13) 10 μF	CCG1223	C 5448	(A,21,88)	CKSSYB104K10
	C 5222	(A,35,12)	CKSRYB105K16	C 5449	(A,52,88)	CKSSYB104K10
	C 5223	(A,35,13)	CKSRYB105K16	C 5450	(A,52,86)	CKSSYB104K10
	C 5224	(A,61,15)	CKSRYB104K50	C 5451	(A,21,87)	CKSSYB104K10
D	C 5225	(B,72,10) 22 pF	CCG1140	C 5453	(A,21,86)	CKSSYB104K10
	C 5226	(A,67,7)	CKSRYB223K50	C 5454	(A,22,84)	CKSSYB104K10
	C 5301	(A,74,112) 10 μF	CCG1171	C 5455	(A,22,82)	CKSSYB104K10
	C 5302	(A,69,110)	CCSRCH470J50	C 5456	(A,52,82)	CKSSYB104K10
	C 5303	(A,67,109)	CCSRCH680J50	C 5457	(A,21,80)	CKSRYB105K16
	C 5304	(A,65,114)	CCSRCH5R0C50	C 5458	(A,50,77)	CKSSYB104K10
	C 5305	(A,65,109)	CCSRCH470J50	C 5459	(A,43,76)	CKSSYB104K10
	C 5306	(A,61,109)	CKSRYB104K50	C 5460	(A,42,77)	CKSSYB104K10
	C 5307	(A,62,106)	CSZSR330M10	C 5461	(A,40,77)	CKSSYB104K10
	C 5308	(A,85,110) 10 μF	CCG1171	C 5462	(A,36,77)	CKSSYB104K10
Е	C 5309 C 5310	(A,85,108) 10 μF (A,78,110)	CCG1171 CKSRYB104K50	C 5463 C 5464	(A,31,77) (A,30,77)	CKSSYB104K10 CKSSYB104K10
	C 5401	(A,46,110)	CCSSCH9R0D50	C 5465	(A,48,77)	CKSSYB104K10
	C 5401	(A,44,110)	CCSSCH9R0D50	C 5466	(A,46,77) (A,52,75)	CSZSR330M10
	C 5403	(A,41,110)	CKSSYB104K10	C 5467	(A,50,108)	CKSSYB104K10
	C 5404	(A,32,110)	CKSSYB104K10	C 5468	(A,10,116)	CKSRYB104K50
	C 5405	(A,30,110)	CKSSYB104K10	C 5469	(A,17,103)	CKSRYB104K50
	C 5406	(A,29,110)	CKSSYB104K10	C 5503	(A,14,100)	CSZS100M16
	C 5407	(A,38,110)	CCSSCH4R0C50	C 5505	(A,11,77)	CKSSYB104K10
	C 5410	(A,49,108)	CKSSYB104K10	C 5507	(A,11,87)	CKSSYB104K10
	C 5411	(A,46,108)	CKSSYB104K10	C 5508	(A,13,76)	CKSRYB105K16
F	C 5412	(A,42,108)	CKSSYB104K10	C 5509	(A,58,82)	CKSSYB104K10
	C 5413	(A,40,111)	CKSSYB103K16	C 5510	(A,14,71)	CKSRYB105K16
	C 5414 C 5415	(A,41,108)	CCSSCH181J25	C 5511	(A,8,70)	CKSSYB104K10 CKSRYB104K50
	U 5415	(A,40,108)	CKSSYB104K10	C 5512	(A,13,61)	UN3M10104N50
l _ ·	188	_	AVH-P595	0DVD/XN/RC	_	

<u>Cir</u>	cuit Symbol and No.	Part No.	<u>Cir</u>	cuit Symbol and No.	Part No.
C 5513	(A,10,72)	CSZSR220M16	Unit Na	-	
C 5514	(A,8,79) 4.7 µF	CCG1111	Onit ita		Come
			MISCELI	ANEOUS	
C 5515	(A,8,67)	CKSRYB105K16	WIISCELL	ANEOUS	
C 5516	(A,61,74)	CKSSYB104K10	IC 1003	(D 70 40) IC	C GOOSOCNING DOK
C 5517	(A,62,77)	CSZS100M16		(B,72,42) IC	S-80859CNNB-B9K
C 5518	(A,12,60)	CKSRYB104K50	IC 1004	(B,75,48) Regulator IC	NJM2880U1-05
C 5519	(A,27,72)	CKSSYB104K10	IC 1005	(B,61,58) IC	S-L2980A50MC-C7J
	,		IC 1007	(B,82,54) IC	NJM2885DL1-33
C 5520	(A,25,72)	CKSSYB104K10	IC 1008	(B,80,63) IC	R1232D121B
C 5521	(A,20,74)	CKSRYB104K50			
C 5522	(A,14,68)	CKSRYB104K50	IC 1201	(A,26,15) IC	BD7996EFV
C 5523	(A,29,67)	CSZSR220M16	IC 1301	(B,90,27) IC	TC7SZ125FU
C 5524	(A,24,69)	CSZS100M16	IC 1351	(B,86,27) IC	TC7SZ08FU
0 0024	(71,24,00)	302010011110	IC 1352	(B,79,13) IC	TC74LCX16373FT
C 5525	(A,21,67)	CKSQYF334Z25	IC 1401	(B,61,32) Flash ROM L	Jnit CWW1434
C 5526	(A,16,68) 4.7 μF	CCG1111			
			IC 1402	(B,37,10) Flash ROM L	Jnit CWW1435
5527	(A,30,65)	CKSSYB104K10	IC 1403	(B,47,29) IC	TC7SZ32FU
C 5528	(A,26,65)	CKSSYB104K10	IC 1481	(B,60,12) IC	EDS1232AATA-75
5529	(A,22,65)	CKSRYB104K50	IC 1501	(A,60,19) IC	MN2DS0016AAUB
0 5500	(A 10 07)	OKOD/D4041(50	IC 1801	(A,70,52) D/A Converte	
C 5530	(A,19,67)	CKSRYB104K50	1001	,,, D// CONVOICE	
5602	(A,119,47)	CKSRYB105K16	Q 1101	(B,62,50) Transistor	2SC4081
C 5603	(A,136,44)	CSZSC101M10	Q 1101 Q 1102	(B,68,50) Transistor	2SC4081
C 5604	(A,120,55)	CKSRYB104K50	Q 1102 Q 1103	(B,60,45) Transistor	2SB1260
C 5605	(A,108,62)	CKSRYB104K50	Q 1103 Q 1104	(B,66,45) Transistor	2SB1260 2SB1260
				(A,88,66) Diode	
C 5606	(A,136,61)	CKSSYB104K10	D 1002	(A,00,00) DIOGE	1SR154-400
C 5607	(A,121,75)	CKSRYB104K50	D 4004	(D.10.10) Object ED	OL COSIDYTI I
C 5608	(A,101,69)	CKSRYB104K50	D 1301	(B,12,10) Chip LED	CL205IRXTU
C 5609	(A,130,43)	CKSRYB104K50	L 1004	(B,63,60) Inductor	CTF1472
C 5610	(A,132,41)	CSZSC101M10	L 1005	(B,81,49) Inductor	CTF1465
	, , ,		L 1006	(B,86,64) Inductor	CTF1678
C 5701	(A,139,62)	CKSSYB102K50	L 1007	(B,74,63) Inductor	CTF1623
C 5702	(A,147,62)	CKSSYB102K50			
C 5703	(A,145,67)	CKSSYB102K50	L 1101	(B,66,54) Inductor	CTF1305
C 5704	(A,148,69)	CKSSYB472K25	L 1482	(B,77,29) Inductor	CTF1473
C 5705	(A,147,67)	CKSSYB472K25	L 1502	(A,71,46) Inductor	CTF1378
0 3703	(A,147,07)	UN331 B47 2 N23	L 1503	(A,60,47) Inductor	CTF1487
C 5801	(A,102,81)	CSZSR330M10	L 1504	(A,35,10) Inductor	CTF1387
		CSZSC101M10		,	
C 5802	(A,143,55)		L 1511	(A,63,3) Inductor	CTF1680
C 5803	(A,139,55)	CKSRYB105K16	L 1601	(A,41,23) Inductor	CTF1473
C 5804	(A,104,79)	CKSRYB105K16	L 1602	(A,55,42) Inductor	CTF1473
C 5805	(A,107,81)	CSZSR330M10	L 1603	(A,54,42) Inductor	CTF1473
			L 1604	(A,52,42) Inductor	CTF1473
C 5808	(A,105,82)	CKSRYB105K16	L 1004	(11,02,72) ITIQUOTOI	011 1470
C 5809	(A,111,100)	CKSSYB104K10	L 1605	(A,38,32) Inductor	CTF1395
C 5810	(A,138,80)	CKSRYB105K16			
C 5811	(A,106,88)	CKSRYB105K16	L 1671	(A,41,19) Inductor	CTF1473
C 5812	(A,106,85)	CKSSYB104K10	L 1672	(A,41,20) Inductor	CTF1473
			L 1673	(A,41,21) Inductor	CTF1473
C 5813	(A,113,81)	CKSSYB104K10	L 1801	(A,70,61) Inductor	CTF1473
C 5814	(A,119,82)	CKSSYB104K10		(4.04.75)	0.754 :
C 5815	(A,145,75)	CKSYB105K16	L 1901	(A,91,73) Inductor	CTF1487
C 5816	(A,137,53)	CKSYB105K16	L 1902	(A,91,62) Inductor	CTF1558
C 5824	(A,101,100)	CCSRCH101J50	X 1501	(A,40,15) Crystal 27.00	
	· ·, · · · · , · · · · /		VR1671	(A,35,20) Semi-fixed 10	` '
C 5825	(A,146,115)	CKSRYB105K10	EF1501	(A,68,46) EMI Filter	DTL1106
C 5923	(A,137,6) 4.7 µF	CCG1201			
C 5901	(A,137,6) 4.7 μF (A,119,8)	CKSRYB104K50	EF1502	(A,61,44) EMI Filter	DTL1106
			EF1901	(A,87,74) EMI Filter	DTF1106
C 5931	(A,24,9)	CKSRYB104K50	EF1903	(A,91,64) EMI Filter	DTL1106
5932	(A,9,9)	CKSRYB104K50			
0 5000	(4.440.0)	01/00/04041/50	RESISTO	)RS	
C 5933	(A,142,9)	CKSRYB104K50	11201010	· · · · ·	
C 5934	(A,156,9)	CKSRYB104K50	D 1011	(D 70 40)	D01/10001011
C 5971	(A,77,12)	CKSRYB104K50	R 1011	(B,72,40)	RS1/16SS104J
C 5972	(A,89,12)	CKSRYB104K50	R 1014	(B,82,61)	RS1/16SS473J
			R 1015	(B,76,60)	RS1/16SS101J
7			R 1101	(B,63,52)	RS1/16SS391J
D			R 1102	(B,62,47)	RS1/16SS511J
Jnit Nu	ımber: YWX5005				
			R 1103	(B,67,53)	RS1/16SS391J
		Δ\/H-	P5950DVD/XN/R0	:	

AVH-P5950DVD/XN/RC 7

R   110   (1,06.47)   RS1/1085861   R   1000   (4,06.15)   RABACO1044   RABACO104	•		1 -	2		3	4
R 1106		Circ			Circ		
R 1107 (8.61.53) RST/MSSSRB1 R 1500 (A.6.12) RAB-COTION R 1100 (8.65.53) RST/MSSSRB1 R 1510 (A.78.11) RAB-COTION R 1100 (8.65.54) RST/MSSSRB1 R 1510 (A.78.11) RAB-COTION R 11100 (8.65.740) RST/MSSSRB1 R 1510 (A.69.4) RST/MSSSTGL R 1511 (A.69.4) RST/MSSSTGL R 1511 (A.69.7) RST/MSSSTGL R 1511 (A.69.7) RST/MSSSTGL R 1512 (A.69.7) RST/MSSSTGL R 1513 (A.44.4) RST/MSSSTGL R 1513 (A.44.4) RST/MSSSTGL R 1514 (A.69.7) RAB-COTION R 15110051RD R 1514 (A.69.7) RAB-COTION R 15110051RD R 1515 (A.49.7) RST/MSSSTGL R 1515 (A.49.7) RST/MSSSTGL R 1515 (A.69.7) RST/MSSSTGL R							
R 1108 (8.65.55) RS1/RSSSR81 R 1510 (A.78.11) RABICCIOU R 1100 (B.07.40) RS1/RSSSR01 R 1510 (A.86.4) RS1/RSSSIOL)  R 1110 (8.66.40) RS1/RSSSR01 R 1512 (8.89.3) RABICCISCU R 1112 (8.04.40) RS1/RSSSR01 R 1514 (A.60.7) RADICCISCU R 1112 (8.04.40) RS1/RSSSR01 R 1514 (A.60.7) RADICCISCU R 1112 (8.04.40) RS1/RSSSR01 R 1514 (A.60.7) RADICCISCU R 1113 (8.69.40) RS1/RSSSR01 R 1516 (A.76.6) RS1/RSSSR02 R 1516 (A.76.6) RS1/RSSSR02 R 1516 (A.76.6) RS1/RSSSR02 R 1516 (A.76.6) RS1/RSSSR02 R 1516 (A.76.6) RS1/RSSSR01 R 1516 (A.76.6) RS1/RSSSR0			, , ,				
### ### ### ### ### ### ### ### ### ##		R 1108		RS1/16SS6R8J	R 1510	(A,78,11)	RAB4CQ104J
R   1110   (B.51.40)	Δ	R 1109	(B,57,40)	RS1/10S1R5J	R 1511	(A,88,4)	RS1/16SS104J
R   1111 (B.70.40)	^						
R   1112   (B,84.40)			,				
R 1113 (B.61.40) RST/1051FBJ R 1516 (A.43.3) RST/1655102J R 1116 (B.69.40) RST/1051FBJ R 1516 (A.76.8) RST/1655103J R 1116 (B.69.40) RST/1051FBJ R 1518 (A.85.5) RST/1655103J R 1116 (B.69.40) RST/1051FBJ R 152 (A.85.6) RST/1655104J R 1116 (B.69.40) RST/1051FBJ R 152 (A.85.6) RST/1655104J R 1116 (B.69.40) RST/1051FBJ R 152 (A.85.6) RST/1655104J R 1126 (A.85.6) RST/1655104J R 1126 (A.85.6) RST/1655104J R 1126 (A.85.6) RST/1655104J R 1126 (A.85.6) RST/1655104J R 1120 (B.70.40) RST/1655221J R 1523 (A.89.11) RST/1655201J R 1520 (A.89.21) RST/1655							
R 1114   (B.99.40)			, , ,			,	
R 1115 (B.66.40) RS1/10S1R5J R 1518 (A.85.5) RS1/16SS104J R 1116 (B.66.40) RS1/10S1R5J R 1520 (A.36.8) RS1/16SS221J R 1116 (B.66.40) RS1/10S1R5J R 1520 (A.36.8) RS1/16SS221J R 1118 (B.70.40) RS1/16SS104J R 1522 (B.66.3) RABCCOPOUJ R 1118 (B.70.40) RS1/16SS21J R 1522 (B.66.3) RABCCOPOUJ R 1118 (B.70.40) RS1/16SS101J R 1525 (B.56.3) RABCCOPOUJ R 1111 (B.70.40) RS1/16SS27DJ R 1522 (B.66.3) RABCCOPOUJ R 1111 (B.70.40) RS1/16SS27DJ R 1522 (B.70.40) RS1/16SS27DJ R 11214 (B.70.40) RS1/16SS37BJ R 1526 (A.36.10) RS1/16SS27DJ R 1212 (B.70.40) RS1/16SS37BJ R 1526 (A.36.10) RS1/16SS37BJ R 1526 (A.36.10) RS1/16SS37BJ R 1526 (A.36.10) RS1/16SS37BJ R 1526 (A.36.10) RS1/16SS37BJ R 1526 (B.70.40) RS1/16SS37BJ R 1526 (A.36.10) RS1/16SS37BJ R 1526 (A.36.10) RS1/16SS37BJ R 1526 (A.36.10) RS1/16SS37BJ R 1526 (A.70.20) RABCCOPOUJ R 1212 (B.70.20) RS1/16SS37BJ R 1526 (A.70.20) RABCCOPOUJ R 1212 (B.70.20) RS1/16SS37BJ R 1526 (A.70.20) RS1/16SS37BJ R 1526 (A.70.40) RS1/16SS37BJ R 1526 (A.70.40) RS1/16SS37BJ R 1526 (B.70.20) RS1/16SS37BJ R 1526 (A.70.40) RS1/16SS37BJ R 1526 (B.70.20) RS1/16SS37BJ R 1526 (A.70.40) RS1/16SS37BJ R 1526 (A.70.40) RS1/16SS37BJ R 1526 (B.70.20) RS1/16SS37BJ R 1526 (A.70.40) RS1/16SS37BJ R 1526 (A.70.4							
R 1116			(2,00,10)			(, ,, , ,, ,,	
R 1117 (B64.49) R81/6S5104J R 1521 (A.4.11) RABACO101J R 1118 (R70.49) R81/6S5104J R 1522 (B.56.5) RABACOSEOJ R81/16S5104J R 1522 (B.56.5) RABACOSEOJ R81/16S5104J R 1523 (A.33.11) R81/16S5104J R81/16S5104J R 1523 (A.33.11) R81/16S5104J R81/16S5104J R 1526 (B.33.13) RABACOSEOJ R81/16S5104J R 1526 (B.33.13) RABACOSEOJ R 1211 (B.26.16) R81/16SS3704J R 1526 (B.33.13) RABACOSEOJ R81/16SS3704J R 1526 (B.33.14) R81/16SS3704J R 1526 (B.33.16) R81/16SS3704J R 1526 (B.14.21) R81/16SS3704J R 1526 (B.16.21) R81/16SS3704J R 1526 (B.		R 1115	(B,66,40)	RS1/10S1R5J	R 1518	(A,85,5)	RS1/16SS104J
R 1118		R 1116	(B,68,40)	RS1/10S1R5J	R 1520	(A,35,8)	RS1/16SS221J
## 1202 (A.19.12) ## R51/16SS221J ## 1523 (A.39.11) ## R51/16SS101J ## R51/16SS101J ## R51/16SS101J ## R51/16SS101J ## R51/16SS101J ## R526 (B.53.3) ## R526 (B.53.2) ## R526 (B.53.2) ## R526 (B.53.2) ## R527 (B			,				
R 1203			, , ,			,	
R 1203 (A,19,11) RS1/16SS221J R 1524 (A,39,12) RS1/16SS270J R 1211 (0,26,18) RS1/16SS270J R 1526 (A,30,10) R 1527 (B,21,18) R 1527 (B,21,18) R 1528 (A,40,14) R 1527 (B,30,18) R 1527 (A,20,27) R 151/6SS38RJ R 1528 (A,40,27) R 151/6SS38RJ R 1528 (A,40,27) R 151/6SS38RJ R 1528 (A,40,27) R 151/6SS38RJ R 1529 (B,14,21) R 1527 (B,12,1) R 1528 (B,14,21) R 1529 (B,15,21) R		H 1202	(A,19,12)	RS1/16SS221J	H 1523	(A,39,11)	RS1/16SS101J
R 1210	В	B 1203	(A 10 11)	BS1/16SS221 I	B 1524	(A 30 12)	BS1/16SS101 I
R 1211 (B.26.18) RSIMSSSIRBJ R 1526 (A.36.10) RSIMSSIZOU R1016 R 1214 (B.28.18) RSIMSSIRBJ R 1528 (A.31.14) RSIMSSIZOU R1016 R 1214 (B.28.18) RSIMSSIRBJ R 1528 (B.53.22) RAB4COB60U R 1 1217 (B.3.118) RSIMSSIRBJ R 1529 (B.53.22) RAB4COB60U R 1 1217 (B.3.118) RSIMSSIRBJ R 1530 (A.43.15) RSIMSSIRBJ R 1530 (A.43.15) RSIMSSIRBJ R 1531 (B.50.22) RAB4COB60U R 1217 (B.3.118) RSIMSSIRBJ R 1531 (B.50.22) RAB4COB60U R 1217 (B.3.118) RSIMSSIRBJ R 1531 (B.50.22) RAB4COB60U R 1217 (B.3.118) RSIMSSIRBJ R 1532 (A.77.22) RSIMSSIRBJ R 1531 (B.50.22) RAB4COB60U R 1217 (B.3.118) RSIMSSIRBJ R 1532 (A.77.26) RSIMSSIRBJ R 1533 (A.77.26) RSIMSSIRBJ R 1533 (A.77.26) RSIMSSIRBJ R 1534 (A.77.26) RSIMSSIRBJ R 1535 (A.63.36) RSIMSSIRBJ R 1535 (A.63.36) RSIMSSIRBJ R 1535 (A.67.40) RSIMSSIRBJ R 1539 (A.67.40) RSIMSSIRBJ R 1541 (A.64.41) RSIMSSIRBJ R 1541 (A.64.41) RSIMSSIRBJ R 1542 (A.60.36) RSIMSSIRBJ R 1541 (A.64.41) RSIMSSIRBJ R 1542 (A.60.36) RSIMSSIRBJ R 1544 (B.20.21) RSIMSSIRBJ R 1544 (A.69.37) RSIMSSIRBJ R 1544 (B.3.3.18) RSIMSSIRBJ R 1545 (A.61.36) RSIMSSIRBJ R 1546 (A.69.36) RSIMSSIRBJ R 1546 (A.69.37) RSIMSSIRBJ R 1546 (A.69.36) RSIMSSIRBJ R 1556 (A.67.38) RSIMSSIRBJ R 1556 (A.67.38) RSIMSSIRBJ R 1556 (A.67							
R 1212 (B.27,18) RS1/16SS3R9J R 1529 (B.53,22) RABICOG660 RS1/16SS3R9J R 1531 (B.50,22) RABICOG660 RS1/16SS3R9J R 1531 (B.50,22) RABICOG660 RS1/16SS3R9J R 1532 (A,77,22) RS1/16SS3103J R 1532 (A,77,22) RS1/16SS3103J R 1534 (A,77,22) RS1/16S							
R 1215					R 1528	, , ,	
R 1216 (B. 20, 18) R51/ESSS9R9J R 1531 (B. 50, 22) RABACOSEOU R 1217 (B. 31.18) R51/ESSS9R9J R 1532 (A. 77, 22) R51/ESSS103J R 1219 (A. 20, 27) R51/ESSS103J R 1534 (A. 77, 22) R51/ESSS103J R 1219 (A. 20, 27) R51/ESSS103J R 1534 (A. 77, 22) R51/ESSS103J R 1534 (A. 77, 22) R51/ESSS103J R 1534 (A. 77, 22) R51/ESSS103J R 1534 (A. 77, 26) R51/ESSS21J R 1227 (B. 13, 21) R51/ESSS3R9J R 1537 (A. 67, 40) R51/ESSS21J R 1229 (B. 14, 21) R51/ESSS3R9J R 1534 (A. 67, 40) R51/ESSS21J R 1229 (B. 15, 21) R51/ESSS3R9J R 1541 (A. 64, 41) R51/ESSS21J R 1230 (B. 15, 21) R51/ESSS3R9J R 1541 (A. 64, 41) R51/ESSS22J R 1230 (B. 10, 21) R51/ESSS3R9J R 1541 (A. 64, 41) R51/ESSS23J R 1232 (B. 10, 21) R51/ESSS3R9J R 1542 (A. 60, 36) R51/ESSS23J R 1232 (B. 10, 21) R51/ESSS3R9J R 1543 (A. 59, 37) R51/ESSS23J R 1234 (B. 20, 21) R51/ESSS3R9J R 1544 (A. 64, 41) R51/ESSS23J R 1234 (B. 20, 21) R51/ESSS3R9J R 1544 (A. 64, 41) R51/ESSS23J R 1240 (B. 20, 21) R51/ESSS3R9J R 1546 (A. 59, 42) R51/ESSS23J R 1240 (B. 32, 18) R51/ESSS3R9J R 1546 (A. 59, 42) R51/ESSS23J R 1240 (B. 32, 18) R51/ESSS3R9J R 1546 (A. 59, 42) R51/ESSS23J R 1240 (B. 33, 18) R51/ESSS3R9J R 1546 (A. 59, 42) R51/ESSS23J R 1240 (B. 33, 18) R51/ESSS3R9J R 1546 (A. 59, 36) R51/ESSS21J R 1244 (B. 33, 18) R51/ESSS3R9J R 1546 (A. 59, 36) R51/ESSS21J R 1244 (B. 33, 18) R51/ESSS3R9J R 1546 (A. 59, 36) R51/ESSS21J R 1244 (B. 33, 18) R51/ESSS3R9J R 1546 (A. 59, 36) R51/ESSS21J R 1546 (B. 35, 18) R51/ESSS3R9J R 1546 (A. 57, 38) R51/ESSS104J R 1547 (A. 68, 34) R51/ESSS3R9J R 1546 (A. 69, 34) R51/ESSS21J R 1547 (A. 68, 34) R51/ESSS3R9J R 1546 (B. 68, 22) R51/ESSS3R9J R 1546 (B. 68, 22) R51/ESSS104J R 1556 (A. 67, 38) R51/ESSS104J R 1556 (A. 67, 38) R51/ESSS104J R 1556 (A. 67, 38) R51/ESSS104J R 1556 (A. 68, 32) R51/ESSS104J R 1556 (A. 68, 32) R51/ESSS104J R 1556 (A. 68, 32) R51/ESSS104J R 1566 (A. 67, 38) R51/ESSS104J R 1566 (A. 67, 38) R51/ESSS104J R 1566 (A. 67, 38) R		R 1214	(B,28,18)	RS1/16SS3R9J	R 1529	(B,53,22)	RAB4CQ560J
R 1216 (B. 20, 18) R51/ESSS9R9J R 1531 (B. 50, 22) RABACOSEOU R 1217 (B. 31.18) R51/ESSS9R9J R 1532 (A. 77, 22) R51/ESSS103J R 1219 (A. 20, 27) R51/ESSS103J R 1534 (A. 77, 22) R51/ESSS103J R 1219 (A. 20, 27) R51/ESSS103J R 1534 (A. 77, 22) R51/ESSS103J R 1534 (A. 77, 22) R51/ESSS103J R 1534 (A. 77, 22) R51/ESSS103J R 1534 (A. 77, 26) R51/ESSS21J R 1227 (B. 13, 21) R51/ESSS3R9J R 1537 (A. 67, 40) R51/ESSS21J R 1229 (B. 14, 21) R51/ESSS3R9J R 1534 (A. 67, 40) R51/ESSS21J R 1229 (B. 15, 21) R51/ESSS3R9J R 1541 (A. 64, 41) R51/ESSS21J R 1230 (B. 15, 21) R51/ESSS3R9J R 1541 (A. 64, 41) R51/ESSS22J R 1230 (B. 10, 21) R51/ESSS3R9J R 1541 (A. 64, 41) R51/ESSS23J R 1232 (B. 10, 21) R51/ESSS3R9J R 1542 (A. 60, 36) R51/ESSS23J R 1232 (B. 10, 21) R51/ESSS3R9J R 1543 (A. 59, 37) R51/ESSS23J R 1234 (B. 20, 21) R51/ESSS3R9J R 1544 (A. 64, 41) R51/ESSS23J R 1234 (B. 20, 21) R51/ESSS3R9J R 1544 (A. 64, 41) R51/ESSS23J R 1240 (B. 20, 21) R51/ESSS3R9J R 1546 (A. 59, 42) R51/ESSS23J R 1240 (B. 32, 18) R51/ESSS3R9J R 1546 (A. 59, 42) R51/ESSS23J R 1240 (B. 32, 18) R51/ESSS3R9J R 1546 (A. 59, 42) R51/ESSS23J R 1240 (B. 33, 18) R51/ESSS3R9J R 1546 (A. 59, 42) R51/ESSS23J R 1240 (B. 33, 18) R51/ESSS3R9J R 1546 (A. 59, 36) R51/ESSS21J R 1244 (B. 33, 18) R51/ESSS3R9J R 1546 (A. 59, 36) R51/ESSS21J R 1244 (B. 33, 18) R51/ESSS3R9J R 1546 (A. 59, 36) R51/ESSS21J R 1244 (B. 33, 18) R51/ESSS3R9J R 1546 (A. 59, 36) R51/ESSS21J R 1546 (B. 35, 18) R51/ESSS3R9J R 1546 (A. 57, 38) R51/ESSS104J R 1547 (A. 68, 34) R51/ESSS3R9J R 1546 (A. 69, 34) R51/ESSS21J R 1547 (A. 68, 34) R51/ESSS3R9J R 1546 (B. 68, 22) R51/ESSS3R9J R 1546 (B. 68, 22) R51/ESSS104J R 1556 (A. 67, 38) R51/ESSS104J R 1556 (A. 67, 38) R51/ESSS104J R 1556 (A. 67, 38) R51/ESSS104J R 1556 (A. 68, 32) R51/ESSS104J R 1556 (A. 68, 32) R51/ESSS104J R 1556 (A. 68, 32) R51/ESSS104J R 1566 (A. 67, 38) R51/ESSS104J R 1566 (A. 67, 38) R51/ESSS104J R 1566 (A. 67, 38) R							
R 1217 (8.31,18)							
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■ R 1231 (B.17.21) RS1/16SS3R9J R 1542 (A.60.36) RS1/16SS323J RS1/16SS3R9J R 1543 (A.59.37) RS1/16SS323J RS1/16SS3R9J R 1543 (A.59.37) RS1/16SS3R3J R 1543 (A.59.37) RS1/16SS3R3J R 1543 (A.59.37) RS1/16SS3R3J R 1543 (A.57.41) RS1/16SS3R3J R 1544 (A.57.41) RS1/16SS3R3J R 1545 (A.61.36) RS1/16SS3R3J R 1545 (A.61.36) RS1/16SS3R3J R 1546 (A.59.42) RS1/16SS3R3J R 1546 (A.59.42) RS1/16SS104J R 1540 (B.32.18) RS1/16SS3R9J R 1546 (A.59.42) RS1/16SS473J R 1544 (B.33.18) RS1/16SS3R9J R 1548 (A.59.36) RS1/16SS473J R 1242 (B.34.18) RS1/16SS3R9J R 1554 (A.60.39) RS1/16SS221J R 1244 (B.35.18) RS1/16SS3R9J R 1555 (A.57.38) RS1/16SS221J R 1245 (B.35.18) RS1/16SS3R9J R 1556 (A.43.7) RS1/16SS104J R 1245 (B.35.18) RS1/16SS3R9J R 1556 (A.43.7) RS1/16SS104J R 1304 (B.72.3) RS1/16SS3R9J R 1556 (A.43.7) RS1/16SS104J R 1304 (B.67.23) RS1/16SS3R9J R 1556 (A.63.41) RS1/16SS104J R 1306 (B.65.23) RS1/16SS243J R 1560 (A.64.42) RAB4CO104J R 1306 (B.65.23) RS1/16SS243J R 1560 (A.64.48) RAB4CO104J R 1307 (B.86.23) RS1/16SS243J R 1560 (A.64.38) RAB4CO104J R 1307 (B.86.23) RS1/16SS243J R 1560 (A.64.38) RAB4CO104J R 1307 (B.86.23) RS1/16SS243J R 1560 (A.64.38) RAB4CO104J R 1507 (B.68.22) RAB4CO660J R 1401 (B.72.33) RS1/16SS243J R 1560 (A.64.38) RS1/16SS103J R 1560 (B.65.23) RAB4CO660J R 1401 (B.72.33) RS1/16SS221J R 1560 (B.65.23) RAB4CO660J R 1400 (B.55.4) RS1/16SS104J R 1560 (B.65.23) RAB4CO660J R 1400 (B.55.4) RS1/16SS104J R 1573 (B.63.19) RS1/16SS103J R 1560 (A.67.23) RAB4CO660J R 1407 (B.57.23) RS1/16SS103J R 1560 (A.67.23) RS1/16SS103J R 1560 (A.67.23) RS1/16SS103J R 1560 (A.67.23) RAB4CO660J R 1500 (A.67.23) RAB4CO660J R 1500 (A.67.23) RAB4CO660J R 1500 (A.67.23) RAB4CO600J R 1500 (A.67.23) RAB4CO600J R 1600 (A.67.23) RAB4CO600J R 1500 (A.67.23) RAB4CO60			, , ,			,	
■ R 1222 (B.18.21)         RS1/16SS3R9J         R 1543 (B.59.21)         RS1/16SS3R9J         R 1544 (A.57.41)         RS1/16SS322J         R 1543 (B.20.21)         RS1/16SS3R9J         R 1545 (A.61.36)         RS1/16SS223J         R 1546 (A.59.42)         RS1/16SS223J         R 1546 (A.59.42)         RS1/16SS223J         R 1546 (A.59.42)         RS1/16SS223J         R 1546 (A.59.42)         RS1/16SS223J         R 1547 (A.59.41)         RS1/16SS223J         R 1547 (A.59.42)         RS1/16SS223J         R 1547 (A.59.42)         RS1/16SS223J         R 1548 (A.59.36)         RS1/16SS221J         R 1548 (A.59.36)         RS1/16SS231J         R 1548 (A.59.36)         RS1/16SS210J         R 1548 (A.59.36)         RS1/16SS210J         R 1548 (A.59.36)         RS1/16SS104J         R 1548 (A.59.36)         RS1/16SS210J         R 1548 (A.59.36)         RS1/16SS221J         R 1554 (A.59.36)         RS1/16SS221J         R 1555 (A.57.38)         RS1/16SS221J         R 1556 (A.43.77)         RS1/16SS221J         R 1557 (A.57.38)         RS1/16SS221J         R 1559 (A.68.341)         RS1/16SS221J         R 1559 (A.68.341)         RS1/16SS2221J         R 1559 (A.68.341)         RS1/16SS2221J         R 1560 (A.68.42)         <		R 1230	(B,16,21)	RS1/16SS3R9J	R 1541	(A,64,41)	RS1/16SS472J
■ R 1222 (B.18.21)         RS1/16SS3R9J         R 1543 (B.59.21)         RS1/16SS3R9J         R 1544 (A.57.41)         RS1/16SS322J         R 1543 (B.20.21)         RS1/16SS3R9J         R 1545 (A.61.36)         RS1/16SS223J         R 1546 (A.59.42)         RS1/16SS223J         R 1546 (A.59.42)         RS1/16SS223J         R 1546 (A.59.42)         RS1/16SS223J         R 1546 (A.59.42)         RS1/16SS223J         R 1547 (A.59.41)         RS1/16SS223J         R 1547 (A.59.42)         RS1/16SS223J         R 1547 (A.59.42)         RS1/16SS223J         R 1548 (A.59.36)         RS1/16SS221J         R 1548 (A.59.36)         RS1/16SS231J         R 1548 (A.59.36)         RS1/16SS210J         R 1548 (A.59.36)         RS1/16SS104J         R 1548 (A.59.36)         RS1/16SS221J         R 1554 (A.59.36)         RS1/16SS221J         R 1555 (A.57.38)         RS1/16SS221J         R 1556 (A.43.77)         RS1/16SS221J         R 1556 (A.43.77)         RS1/16SS221J         R 1557 (A.57.38)         RS1/16SS221J         R 1559 (A.68.341)         RS1/16SS221J         R 1559 (A.68.341)         RS1/16SS2221J         R 1559 (A.68.341)         RS1/16SS2221J         R 1559 (A.68.341)         RS1/16SS2221J         R 1560 (A.68.42)		D 1231	(B 17 21)	RS1/16SS3R0 I	D 15/12	(4 60 36)	PS1/16SS223 I
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D         R 1242 (B.34,18)         RS1/16SS3R9J         R 1548 (A.59,36)         RS1/16SS21J         RS1/16SS21J         RS1/16SS21J         RS1/16SS22LJ         RS1/16SS2LAJ         RS1/16SS3R9J         RS1/16SS3R9J         RS1/16SS3R9J         RS1/16SS3R9J         RS1/16SS3R9J         RS1/16SS3R9J         RS1/16SS2LAJ							
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	Circ	uit Symbol and No.	Part No.		Circu	uit Symbol and N	No.	Part No.	
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R	1614	(A,46,35)	RS1/16SS105J	С	1302	(B,88,25)		CKSSYB104K10	
R	1615	(A,43,32)	RS1/16SS105J	С	1351	(B,86,25)		CKSSYB104K10	
R	1616	(A,53,36)	RS1/16SS2002D		1352	(B,75,19)		CKSSYB104K10	
	1672	(A,43,21)	RS1/16SS303J	_		(=,:=,:=)			
	1 1072	(7,40,21)	110 1/ 10000000	_	1353	(D 01 10)		CKSSYB104K10	Α
_	1070	(4.07.00)	DC1/10001001			(B,81,19)			
	1673	(A,37,22)	RS1/16SS183J		1354	(B,74,7)		CKSSYB104K10	
	1674	(A,34,23)	RS1/16SS562J		1355	(B,85,8)		CKSSYB104K10	
	R 1705	(A,55,57)	RS1/16SS101J	С	1356	(B,83,28)		CKSYB106K6R3	
R	1706	(A,52,56)	RS1/16SS201J	С	1401	(B,72,31)		CKSSYB103K16	
R	R 1707	(A,55,51)	RS1/16SS101J						
		, , ,		С	1402	(B,49,33)		CKSSYB104K10	
R	R 1708	(A,52,50)	RS1/16SS201J	-	1403	(B,81,27)		CKSQYB475K6R3	
	1715	,	RS1/16SS201J		1405			CKSSYB103K16	
		(A,60,56)				(B,48,8)			
	1716	(A,62,57)	RS1/16SS101J		1406	(B,25,15)		CKSSYB104K10	
	R 1719	(A,60,50)	RS1/16SS201J	С	1407	(B,74,27)		CKSQYB475K6R3	
R	1720	(A,62,51)	RS1/16SS101J						
				С	1408	(B,47,27)		CKSSYB104K10	В
R	1803	(A,72,56)	RS1/16SS821J		1481	(B,72,5)		CKSSYB104K10	Ь
	1804	(A,74,56)	RS1/16SS821J		1482	(B,72,7)		CKSSYB104K10	
	1805	(A,72,61)	RS1/16SS104J		1483	(B,67,5)		CKSSYB104K10	
	1806	(A,74,61)	RS1/16SS104J	С	1484	(B,63,5)		CKSSYB104K10	
R	1903	(A,89,52)	RS1/16SS0R0J						
				С	1485	(B,56,5)		CKSSYB104K10	_
R	1904	(A,90,59)	RS1/16S0R0J	С	1486	(B,53,5)		CKSSYB104K10	
		( ,,,			1487	(B,51,5)		CKSSYB104K10	
_	APACITO	npe			1488	(B,49,5)		CKSSYB104K10	
<u>C</u>	APACIIC	<u>Jho</u>							
				C	1490	(B,68,19)		CKSSYB104K10	
С	1019	(B,58,59)	CCSSCH101J50						
С	1020	(B,58,57)	CKSSYB104K10	С	1491	(B,77,27)		CKSQYB106K6R3	
С	1021	(B,60,60)	CKSRYB105K10	С	1492	(B,55,19)		CKSSYB104K10	С
	1022	(B,79,47)	CKSSYB103K16	С	1493	(B,52,19)		CKSSYB104K10	
	1023	(B,79,49)	CKSSYB104K10	С	1494	(B,65,19)		CKSSYB104K10	
U	7 1023	(B,79,49)	OK331B104K10		1496	(B,65,5)		CKSSYB102K50	
_	1001	(D 71 10)	01/00//04751/40	·	1400	(15,000,0)		ONOO I BIOZNOO	
	1024	(B,71,48)	CKSQYB475K10	_	1407	(D.61.10)		CKCCABTOOKEO	
	1025	(B,64,58)	CKSRYB105K10		1497	(B,61,19)		CKSSYB102K50	
	1026	(B,12,19)	CKSSYB104K10		1498	(B,77,26)		CKSSYB102K50	
С	1027	(A,90,53)	CCSSCH101J50		1499	(B,49,4)		CKSSYB102K50	_
С	1028	(B,89,56)	CKSRYB105K10	С	1501	(A,68,44)		CKSQYB106K6R3	
		( , = = , = = ,		С	1502	(A,58,43)		CKSQYB106K6R3	
C	1029	(B,89,52)	CKSQYB225K10			( , , ,			
		,		C	1503	(A,55,3)		CKSSYB104K10	
	1030	(B,84,59)	CKSQYB106K6R3		1504			CKSSYB104K10	
	1031	(B,85,59)	CKSQYB106K6R3			(A,58,3)			Б
	1032	(B,82,59)	CKSRYB105K10		1505	(A,53,3)		CKSSYB104K10	D
С	1033	(B,73,59)	CKSQYB106K6R3		1506	(A,60,3)		CKSSYB104K10	
				С	1507	(A,68,2)		CKSSYB104K10	
С	1034	(B,73,57)	CKSQYB106K6R3						
	1035	(B,45,27)	CCSSCH101J50	С	1508	(A,65,3)		CKSSYB104K10	
	1101	(B,61,54) 10 μF	CCG1192	C	1509	(A,69,2)		CKSSYB104K10	
					1510	(A,43,11)		CKSSYB104K10	_
	1102	(B,58,50) 100 μF	CCG1232		1511	(A,76,7)		CKSSYB104K10	
C	1103	(B,65,50) 100 μF	CCG1232						
				C	1512	(A,76,11)		CKSSYB104K10	
	1104	(B,63,43)	CKSSYB104K10	_					
С	1105	(B,70,43)	CKSSYB104K10	С	1513	(A,43,10)		CKSSYB104K10	
	1106	(B,63,45)	CKSSYB103K16	С	1514	(A,76,17)		CKSSYB104K10	
	1107	(B,70,45)	CKSSYB103K16	С	1515	(A,43,16)		CKSSYB104K10	
	1108	(A,35,36)	CKSSYB103K16		1516	(A,76,15)		CKSSYB104K10	E
U	, 1100	(A,33,30)	OKSSTB103K10		1517	(A,43,17)		CKSSYB104K10	
_		(4.00.00)	01/07)/7/1051/10	·	1017	(71,40,17)		0110011011011110	
	1109	(A,36,33)	CKSRYB105K10	_	1510	(4.07.44)		0000011000000	
	1110	(A,35,37)	CKSSYB103K16		1518	(A,37,14)		CCSSCH8R0D50	
С	1111	(A,39,33)	CKSRYB105K10		1519	(A,37,16)		CCSSCH8R0D50	
С	1201	(B,21,11)	CEVW101M16		1521	(A,76,24)		CKSSYB104K10	
С	1202	(B,15,17)	CKSYB475K16	С	1522	(A,77,24)		CKSSYB104K10	
-	-	,		С	1523	(A,58,36)		CKSSYB104K10	
_	1207	(B,16,10)	CKSQYB225K10						
	1207	,	CKSSYB104K10	C	1524	(A,57,37)		CKSSYB103K16	
		(A,32,17)			1525	(A,66,36)		CKSSYB104K10	
	1210	(A,32,19)	CKSSYB471K50			· · · /			
	1211	(A,19,16)	CKSSYB103K16		1526	(A,62,40)		CKSSYB103K16	
С	1212	(A,19,8)	CKSSYB104K10		1527	(A,63,35)		CKSSYB471K50	F
				С	1528	(A,65,36)		CKSSYB104K10	•
С	1213	(A,19,9)	CKSSYB104K10						
	1301	(B,90,25)	CKSSYB104K10	С	1529	(A,60,38)		CKSSYB103K16	
•		, ,,,			1530	(A,59,39)		CKSSYB224K6R3	
						· · · · · · · · · · · · · · · · · · ·			
			AVH-P595	UDVL	J/XN/RC	I			101

AVH-P5950DVD/XN/RC 7

_		1 <del>-</del>	2	_	3 —	4
	<u>Cir</u>	<u>cuit Symbol and No.</u>	<u>Part No.</u>	<u>Cir</u>	cuit Symbol and No.	<u>Part No.</u>
	C 1531	(A,57,42)	CKSSYB123K16	S 1203	Spring Switch(DISC SENS	) CSN1069
	C 1536	(A,76,20)	CKSSYB104K10	S 1204	Spring Switch(DISC SENS)	
				3 1204	Spring Switch(Disc SENS)	) 03111070
	C 1537	(A,55,43)	CKSSYB102K50	0.4005	0-1-1-1-(0)	0014070
Α	0.4500	(4.50.40)	01/00//04/00//50	S 1205	Spring Switch(8cm)	CSN1070
	C 1538	(A,53,43)	CKSSYB102K50	R 1298		RS1/16S0R0J
	C 1539	(A,57,36)	CKSSYB104K10	R 1299		RS1/16S0R0J
	C 1540	(A,61,38)	CKSSYB103K16	_		
	C 1560	(A,51,3)	CKSSYB104K10	<b>13</b>		
	C 1577	(A,77,30)	CKSSYB104K10			
				Unit Nเ	umber: CWX3394	
	C 1601	(A,41,24)	CCSSCH101J50	Unit Na	ame : Compound	I I Init/R\
	C 1602	(A,43,24)	CCSSCH101J50	UIIIL ING	anie . Compound	i Ullit(D)
	C 1603	(A,37,23)	CCSSCH680J50			
	C 1604	(A,39,25)	CCSSCH680J50	S 1206	Switch(CLAMP)	CSN1067
	C 1608	(A,41,26)	CKSSYB103K16			
	0 .000	(/ 1, 1 1,=0)	0.100.12.100.1.10			
	C 1609	(A,43,26)	CKSSYB103K16	OPT/R0	CA Unit	
В	C 1610		CCSSCH101J50		<u></u>	
		(A,53,39)		<u>Consist</u>	<u>IS OT</u>	
	C 1611	(A,53,37)	CKSSYB562K25	OPT PO	CR	
	C 1612	(A,55,36)	CKSSYB224K6R3			
	C 1613	(A,55,37)	CKSSYB224K6R3	RCA P	<u>CB</u>	
	_				-	
_	C 1614	(A,56,37)	CKSSYB333K16		_	
	C 1615	(A,41,30)	CKSRYB105K10	GI		
	C 1616	(A,48,36)	CKSSYB104K10	$\mathbf{G}_{\mathbf{I}}$		
	C 1617	(A,49,38)	CKSSYB104K10			
	C 1618	(A,51,38)	CKSSYB104K10	Unit Nเ	ımbarı	
		, , ,				
	C 1619	(A,51,36)	CKSSYB104K10	Unit Na	ame : OPT/RCA l	Jnit
С	C 1620	(A,50,36)	CKSSYB104K10			
C	C 1621	(A,50,38)	CKSSYB104K10	MICCEL	LANEOUS	
	C 1622	(A,52,38)	CKSSYB104K10	WIISCEL	LANEOUS	
	C 1623		CKSSYB104K10			
	C 1023	(A,52,39)	CK331B104K10	IC 4201	(A,35,16) L-MOS And Gat	
	0.4004	(4.40.07)	01/00//04/00//40	D 4201	(A,42,16) Diode	UDZS5R6(B)
	C 1624	(A,43,27)	CKSSYB103K16	D 4202	(A,42,11) Diode	UDZS5R6(B)
	C 1625	(A,56,36)	CKSSYB104K10	L 4201	(A,28,14) Inductor	CTF1379
_	C 1626	(A,41,31)	CKSRYB105K10	L 4202	(A,59,24) Inductor	CTF1389
	C 1627	(A,43,23)	CKSSYB104K10			
	C 1628	(A,54,36)	CKSSYB104K10	RESISTO	ORS	
					<u> </u>	
	C 1629	(A,49,36)	CKSSYB104K10	R 4201	(A,24,14)	RS1/16S0R0J
	C 1630	(A,38,30)	CKSQYB106K6R3			
D	C 1671	(A,43,18)	CKSSYB104K10	R 4203	(A,25,17)	RS1/16S221J
	C 1672	(A,43,19)	CKSSYB104K10	R 4204	(A,28,17)	RS1/16S621J
	C 1673	(A,37,21)	CKSSYB104K10	R 4205	(A,31,16)	RS1/16S473J
	0 .0.0	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.100.12.0	R 4206	(A,32,13)	RS1/16S0R0J
	C 1674	(A,39,21)	CKSSYB104K10			
	C 1675	(A,39,19)	CKSRYB105K10	R 4207	(A,38,16)	RS1/16S121J
_	C 1676	(A,37,19)	CKSRYB105K10	R 4211	(A,68,6)	RS1/16S0R0J
	C 1677	(A,43,22)	CKSSYB104K10	<u>CAPACI</u>	TORS	
	C 1801	(A,74,52)	CKSSYB104K10	<u>-</u>		
	0.4000	(4.07.50) 40.5	0004400	C 4202	(A,28,16)	CCSRCH150J50
	C 1802	(A,67,58) 10 μF	CCG1192	C 4203	(A,37,18)	CKSRYB104K50
	C 1803	(A,67,56)	CKSSYB104K10	C 4204	(A,38,13)	CKSYB106K10
_	C 1804	(A,69,58) 10 μF	CCG1192	C 4204 C 4207	(A,62,16)	CKSRYB104K50
E	C 1805	(A,69,56)	CKSSYB104K10			
	C 1808	(A,72,57)	CCSRCH182J50	C 4301	(A,17,13)	CKSRYB102K50
	C 1809	(A,75,57)	CCSRCH182J50	K		
	C 1810	(A,72,59)	CKSQYB475K6R3			
	C 1811	(A,74,59)	CKSQYB475K6R3	Unit Nเ	umber: CXX2316	
	C 1901	(A,84,74)	CKSSYB102K50	Hnit Na	ame : Main PCB	Unit(SERVICE)
-	2 1001	· · · · · · /	3.100.0100	OTHE INC	and I want FOD	
	13			<u>MISCEL</u>	<u>LANEOUS</u>	
	Lipit Ni	imbor: CMV21E4				
		ımber: CWX3154		IC 101	IC	BA00CC0WFP
	Unit Na	ime : Compound	d Unit(A)	IC 102	IC	BA6247FP
F		•	` '	IC 103	Photo-interrupter	GP2L24B
	O 1200	Photo taransistar	CDT221SCTD	IC 104	IC	TC7W14FU

AVH-P5950DVD/XN/RC

Q 1299 S 1201

S 1202

Photo-taransistor

Spring Switch(12cm) Spring Switch(8cm)

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CPT231SCTD CSN1069

CSN1069

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IC

Photo-interrupter

TC7W14FU

4

GP2L24B

IC 104

IC 105

5 Circuit Symbol and No.	6 Dort No.	7	-	8	ı
Circuit Symbol and No.  Q 101 Transistor	Part No. DTC124EUA				
D 101 Diode	UDZS5R6(B)				
<u>RESISTORS</u>	, ,				
<u>HESISTONS</u>					A
R 101	RS1/16S102J				
R 102	RS1/16S3302D				
R 103	RS1/16S3900D				
R 104 R 105	RS1/16S4701D RS1/16S471J				
H 105	N3 1/ 1034/ 10				
R 106	RS1/16S102J				
R 107	RS1/16S102J				
R 108	RS1/16S102J				
R 109	RS1/16S102J				
R 110	RS1/16S102J				
R 111	RS1/16S562J				
R 112	RS1/16S102J				
R 113	RS1/16S102J				
R 114	RS1/16S102J				
R 115	RS1/16S562J				
D 440	D04/4004001				Ī
R 116 R 117	RS1/16S102J RS1/16S472J				
n III	N3 1/ 10347 20				
<u>CAPACITORS</u>					
C 101	CKSYB475K16				
C 101	CKSYB475K16				(
C 103	CKSRYB104K16				
C 103	CKSRYB104K16				
C 105	CKSRYB223K16				
C 106	CKSRYB104K16				
C 107	CKSRYB223K16				
C 108	CEVW101M16				
C 109	CKSRYB104K16				
C 110	CCSRCH102J50				
C 111	CCSRCH102J50				
	000.101.1102000				
					L
Unit Number: CZW5029					
Unit Name : Switch PC	B Unit				
S 101 Switch(Angel sw)	CSN1068				I
D. /					
M					
Unit Number: CZW5028					
Unit Name : Volume Po	CR Unit				
Offic Name : Volume P	CD UIIIL				-
VR101 Volume(Angel sense)	CCW1025				E
Miscellaneous Parts List					

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	Pickup Unit(Service)	CXX2118
M 1	Motor Unit(LOADING)	CXC4912
M 2	Motor(STEPPING)	CXM1364
М 3	Motor(SPINDLE)	CXM1362

AVH-P5950DVD/XN/RC

# Pioneer sound.vision.soul

# Service Manual

ORDER NO. CRT3896

**DVD MECHANISM MODULE(MS5)** 

CX-3212

- This service manual describes the operation of the DVD mechanism module incorporated in models listed in the table below.
- When performing repairs use this manual together with the specific manual for model under repair.

Model	Service manual	DVD Mechanism Module
AVIC-D3/XU/UC	CRT3879	CXK6601
AVIC-D3/XU/EW5		

# **CONTENTS**

1. CIRCUIT DESCRIPTIONS	2
2. MECHANISM DESCRIPTIONS	
3 DISASSEMBLY	2/

## 1. CIRCUIT DESCRIPTIONS

#### 1. Front end section (MN2DS0016AAUB: IC1501)

MN2DS0016AAUB is a 1 chip LSI for DVD-Player. A DVD-Player system can be constructed by connecting this LSI, driver IC, SDRAM, Flash-ROM, Audio-DAC, etc.

This LSI includes a front end (SODC/FE) which executes RF signal processing, servo processing and decode processing, a back end (AV decoder/BE) which executes video decode processing such as MPEG1/MPEG2/JPEG and audio decode processing such as DVD-Audio/Dolby Digital 2/DTS/MP3, and a system controller which controls

The front end section realizes optical head signal computation processing and RF signal processing, digital signal processing (16-8 demodulation, error correction) for DVD-ROM playback according to the DVD specifications, digital signal processing of CD-DA/CD-ROM (error correction), AV decoder transfer, servo control, spindle motor control and seek control.

In the case of MN2DS0016AAUB, the front end servo system waveforms, such as FE, TE and AS, are not observed as in the case of DVD mechanism module (MS4) CX-3183. Please pay attention.

#### 1.1 Analog block (MN2DS0016AAUB : IC1501)

The functions of the analog block are as described below.

- 1. Reference power circuit
- 2. SERVO system/DPD system signal processing circuit Gain switching amplifier and Low Pass Filter (LPF)
- 3. RF signal processing circuit RF adding circuit, circuit to make inline, Variable Gain Amplifier (VGA) circuit
- 4. Laser power control (LPC) circuit
- 5. A/D converter for SERVO (10 bit, DPD system-4ch), PWM

#### 1.1.1 APC circuit

The optical output of the laser diode (LD) has a large negative temperature characteristic.

Therefore, if the LD is driven by a constant current, a constant optical output cannot be obtained.

APC circuit is a circuit to control the current so that the output at the monitor diode (MD) will be constant.

MN2DS0016AAUB includes 2 types of APC circuit, one for DVD and the other for CD.

The LD current can be obtained by dividing the measured voltage between DVDLD1 (CDLD1) and 5 V by 6  $\Omega$  $(1.5 \Omega \times 4=6 \Omega)$ , in the case of DVD (CD), It will be approximately 50 mA (45 mA) in the case of DVD (CD).

The potential difference between DVDLD1(CDLD1) and 5 V is set to approx. 300 mV(270 mV).

CN1101 1.5 Ω1.5 Ω1.5 Ω1.5 Ω CDLD1 78 LD CDLDO 14 CDMPD 78 MD 1.5 Ω1.5 Ω1.5 Ω1.5 Ω **DVN** Chip DVDLD1 (MN2DS0016AAUB: IC1501) 25 65 LD DVDLD0 15 DVDMPD **PU UNIT** 

CX-3212

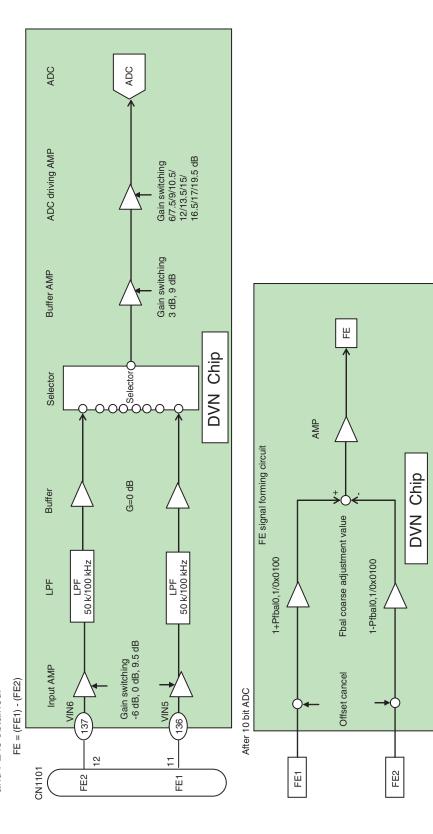
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# 1.1.2 FE forming circuit Focus error (FE) forming circuit

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The signal from PU, FE1 and FE2, are AD converted inside IC1501 and captured. After that, a differential is obtained by taking the offset cancellation into consideration, and FE is obtained.

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CX-3212

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1.1.3 TE forming circuit

racking error (TE) forming circuit

In the case of a CD, 3 beam method is used, and after entering the signal into a variable amplifier for tracking offset adjustment via an external resistor, it is AD converted, In the case of a DVD, the phase difference method is used for TE forming, and the TE is formed from the phase difference among (A+C) and (B+D). and a TE is formed by the equation of  $TE=(E+G\_E+F)-(F+H\_G+H)$ .

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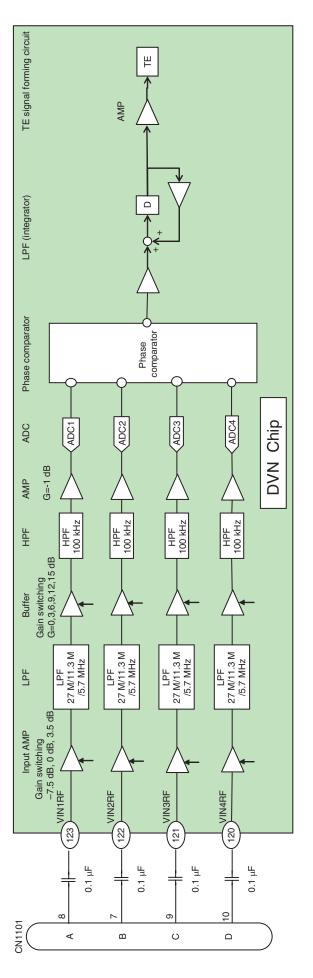
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DVD (phase difference TE)



CX-3212

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Gain switching 3 dB, 9 dB |Selector Q Chip Selector DVN G=0 dB Buffer LPF 50 k/100 kHz LPF 50 k/100 kHz LPF Gain switching -6 dB, 0 dB, 9.5 dB Input AMP VINIO 134 135 F+H\_G+H 21 22 E+G\_E+F CN1101

· CD (3 beam TE)

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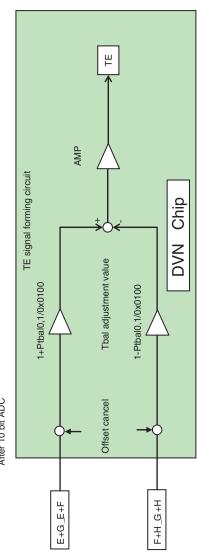
ADC

Gain switching 6/7.5/9/10.5/ 12/13.5/15/ 16.5/17/19.5 dB

ADC

AMP

**Buffer AMP** 



After 10 bit ADC

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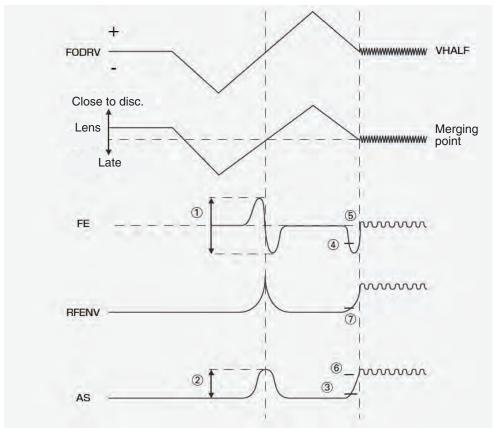
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#### 1.2 Servo block (MN2DS0016AAUB: IC1501)

At the servo block, focusing, tracking, servo control of traverse, spindle motor control and seek control are performed.

#### 1.2.1 Focus close



After issuing the focus close command, both the DVD and the CD will perform the following processing.

- 1. Measurement and optimization of the signal level.
  - First the PU lens is driven in the direction getting away from the disc, then it is driven in the direction getting close to the disc. At this time, each signal level of FE, AS and RFENV are measured at the focused focal point that the lens passes, and the levels of FE and AS are optimized. (1 and 2 in the figure)
- 2. Focus adjustment

Next, after detecting the drawing level of FE and AS by driving the lens away from the disc, the focus loop filter is activated and the focus is drawn. (3~6)

- 3. Confirmation of adjustment
  - Confirm the drawing at the signal level of AS and RFENV. (6, 7)
  - The signal levels of FE, AS and RFENV and the focus drive voltage can be checked by the focus search in the test mode.

#### 1.2.2 Tracking close

After issuing the tracking close command, both the DVD and the CD will perform the following processing.

- 1. Tracking brake
  - 1/2 cycle of the track cross is measured and if the cycle is within the specified range, the brake pulse is output. The output direction of the brake pulse is determined by the phase relationship of the OFTR and the TKC (binary signal of TE) signals. When it is confirmed that the swinging of the lens against the disc has been controlled, braking will be stopped and enters into drawing. If the drawing conditions are not met within 10 msec, after the brake output, the brake will be ended and entered into drawing.
- 2. Tracking adjustment
  - Tracking drive hold processing by the OFTR signal will be performed.
- 3. Confirmation of adjustment
  - Checking is made that the number of track jumps within the specified period of time are at the designated numbers or less. The time out for confirmation of adjustment is 8.4 msec. and retry is performed by the command from the microcomputer.

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In this system, one of the three methods, interval jump, multi jump or traverse seek, is selected depending on the number of target moving tracks.

#### 1. Interval jump

Detailed seek can be performed to execute repeated track jump of 1 track, and it is used when the target track gets close or at the time of seek operation to the adjacent track.

#### 2. Multi jump

Both edges of the track cross signal TKC are counted, and track count move of the designated number is executed. Furthermore, the stepping motor is driven according to the number of jumps.

#### 3 Traverse seek

The stepping motor is controlled by F/W. Track count by TKC is not performed, and the stepping motor is moved according to the number of jumps. In the case of a DVD, seek is performed by maintaining the pick up at the mid point using the mid point servo by the microcomputer.

It indicates the setting for jump switching common to DVD and CD.

Types of target move number of jumps.

DVD

1~10 Interval jump 11~500 Multi jump

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501~878 Combination of multi jump and interval jump

879~1756 Traverse seek (short)

1757~ Traverse seek (long)

CD

1~10 Interval jump

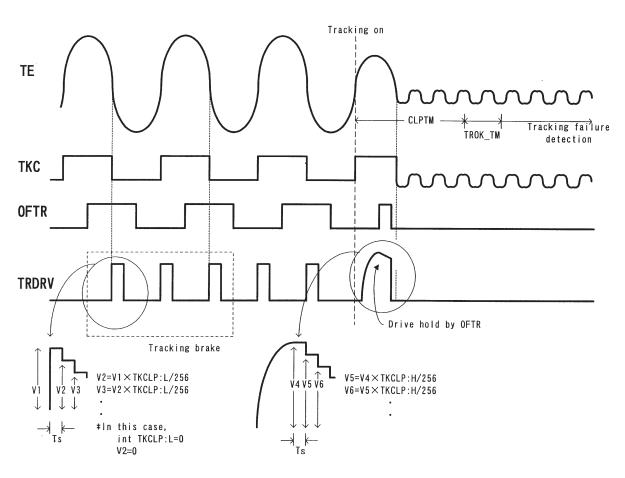
11~400 Multi jump 401~780 Combination of multi jump and interval jump

781~928 Traverse seek (short)

929~ Traverse seek (long)

The waveform of track jump is shown on the next page.

#### **Tracking-on process**

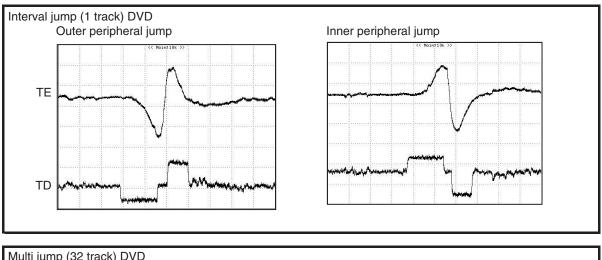


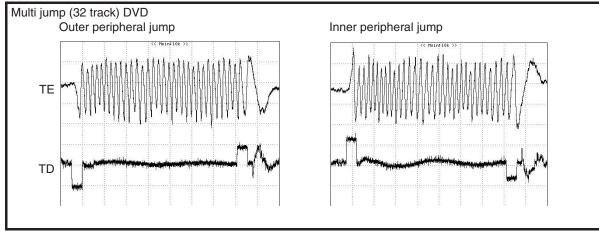
CX-3212

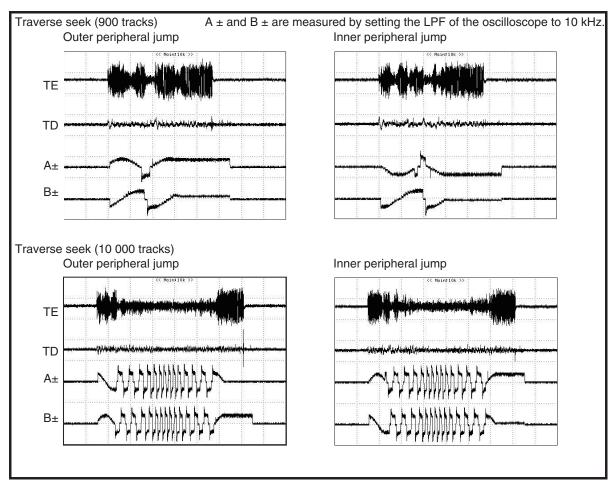
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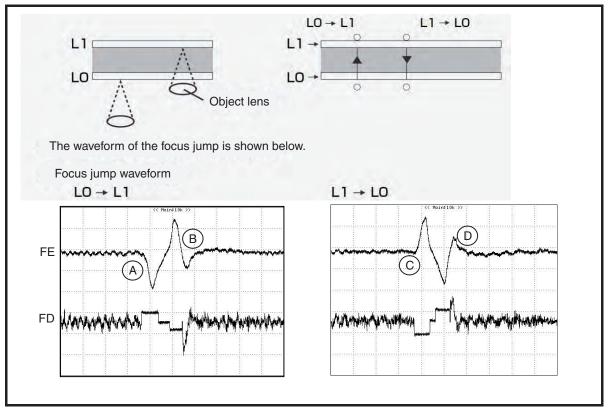
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Focus jump is a function compatible to 2 layers on one side or 2 layers on both sides. Looking from the object lens, the layer close to the lens is called "layer 0" (L0) and the layer away from the lens is called "layer 1" (L1).



The flow of the focus jump is shown below.

- 1. The tracking is opened by the layer being played back.
- 2. A command is issued to execute jump to the target layer.
- 3. The tracking is closed at the layer after the jump and the playback is resumed.

Incidentally, the process when the jump command is issued is as described below.

- The lens is accelerated to the target layer until the FE signal detects the focus jump acceleration end level.
   Acceleration will be ended by force, however, if the time for acceleration timeout has elapsed before detecting the acceleration end level.
- 2. The drive voltage is not output until the FE signal detects the speed reduction start level, and the lens is moved by inertia.
- 3. The lens speed is reduced from detection of the speed reduction start level until detection of the speed reduction end level. Speed reduction will be ended by force, however, if the time for speed reduction timeout has elapsed before detecting the speed reduction end level.

#### 1.3 Auto adjustment function

All circuit adjustments are automated in this system.

Details of each auto adjustment are explained below.

#### 1.3.1 VIN1, VIN2, VIN3, VIN4, VIN5, VIN6, VIN9, VIN10 offset cancel

Each signal from VIN1~6, 9 and 10 output by PU is converted to a digital signal by the AD converter in the servo block. Offset cancel is a function to cancel input offset of the AD converter at the time of power ON.

#### 1.3.2 VCO gain adjustment (VARI adjustment)

It has a function to absorb variation of VCO gain among individual LSI by learning so that auto adjustment is made to maintain the VCO gain at a certain level. VCO is locked against the reference frequency for learning.

And, a frequency control value (FCNT) is read, and VARI register is adjusted so that the read value becomes the same as the target FCNT value.

#### 1.3.3 FE normalization adjustment

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FE signal level measured at the time of focus close is adjusted so that it will become 190LSB at the digital equalizer input stage.

CX-3212

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#### 1.3.4 Tracking balance (TBAL) adjustment

At the time of focus close and tracking open, the lens is oscillated in the track direction and the balanced point where the DC offset becomes zero is searched and adjusted by using the Newton-Raphson method.

#### 1.3.5 Learning of tracking error amplitude

At the time of focus close and tracking open, the lens is oscillated in the track direction and adjusted so that the TE amplitude level becomes 190 LSB at the digital equalizer input stage.

#### 1.3.6 OFTR adjustment

The binary threshold level is adjusted to make the OFTR signal into a binary digit.

#### 1.3.7 RF gain adjustment

The gain setting is adjusted by the VGA value in order to set the gain setting of the RF forming circuit to an optimum one according to the PU output.

#### 1.3.8 Focus balance (FBAL) adjustment

The focus position is adjusted so that the RFENV will be the maximum at the time of focus close  $\cdot$  tracking open and tracking close.

#### 1.3.9 Focus gain adjustment, tracking gain adjustment

At the time of tracking close, a disturbance is entered into the servo loop to adjust to the target gain intersection.

#### 1.3.10 AS normalization adjustment

The AS signal level is measured for the designated number of samples at the time of track closing, and after A/D conversion at the ADSC, it is fine adjusted to become 64 LSB at the digital equalizer input stage.

All auto adjustments can be confirmed by displaying the adjustment result in the test mode. The list of auto adjustment coefficient

State	Coefficient	DVD	CD
	VIN1 offset	06B7~08CD	-
	VIN2 offset	06B7~08CD	-
	VIN3 offset	06B7~08CD	-
	VIN4 offset	06B7~08CD	-
	VIN5 offset	06B7~08CD	06E1~08A3
	VIN6 offset	06B7~08CD	06E1~08A3
	VIN9 offset	-	06B7~08CD
Power ON	VIN10 offset	-	06B7~08CD
	FE MAX	0E48~36CD	13A5~469A
	FE MIN	C933~F1B8	B966~EC5B
	AS MAX	037B~1BD9	0978~3DDC
F close	FE normalization	01DD~05B4	016A~045B
	TE MAX	1518~47E0	0337~381A
	TE MIN	B820~EAE8	C7E6~FCC9
F close (after TBAL)	TE normalization	017C~0320	0230~08AF
	F gain	0100~0400	←
	T gain	0100~0400	←
T close	AS normalization	024C~125F	0168~0399

Note) Coefficient values are indicated in hexadecimals. In all cases, specifications at the production line are described. For discs, TDV-582 is used for DVD and TCD-792 is used for CD.

#### 1.4 CIRC block (MN2DS0016AAUB : IC1501)

The CIRC block includes the digital signal processing function (EFM modulation and error correction) of CD-DA and CD-ROM and the digital servo processing function of the spindle motor.

#### 1.5 DRC block (MN2DS0016AAUB : IC1501)

The digital read channel (DRC) is equipped with A/D converter, digital equalizer (DEQ), Adaptive filter, Viterbi detector, digital PLL circuit, RISC interface and periphery circuits for reading of signal on optical disc.

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#### 1.6 ATAPI I/F(MS5 base model)

#### [Outline]

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The ATAPI interface is a ATAPI protocol control circuit compatible to ATA/ATAPI-5.

The register of the control section can be directly accessed from the system controller, and the data transfer is made via the SODC internal bus.

#### ATAPI interface

\* When viewed from | DVD-LSI.

Signal Name	Bits	I/O	Description
HDD[15:0]	16	I/O	ATAPI data input/output
NCS[1:0]	2	I	ATAPI host chip select
DA[2:0]	3	I	ATAPI host address
NIORD	1	I	ATAPI host data read out
NIOWR	1	I	ATAPI host data write
IORDY	1	0	ATAPI host ready output
DMARQ	1	0	DMA request to ATAPI host
NDMACK	1	I	DMA response from ATAPI host
INTRQ	1	0	Interrupt request to ATAPI host
NDASP]	1	0	ATAPI drive information
NPDIAG	1	0	ATAPI slave · master diagnosis
NRESET	1	I	ATAPI host hard reset
MASTER	1	I	ATAPI slave ⋅ master selection

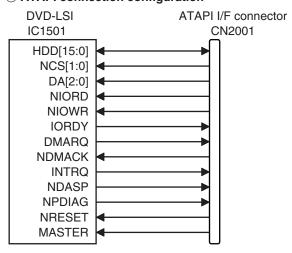
#### ATAPI specifications

• Compatible transfer mode

PIO	mode 0 to 4
Single word DMA	mode 0 to 2
Multi word DMA	mode 0 to 2
Ultra DMA	mode 0 to 4

- 64 Byte data FIFO for host I/F is built-in.
- Auto capturing function of ATAPI command packet is built-in.
- Master slave compatible

#### • ATAPI connection configuration



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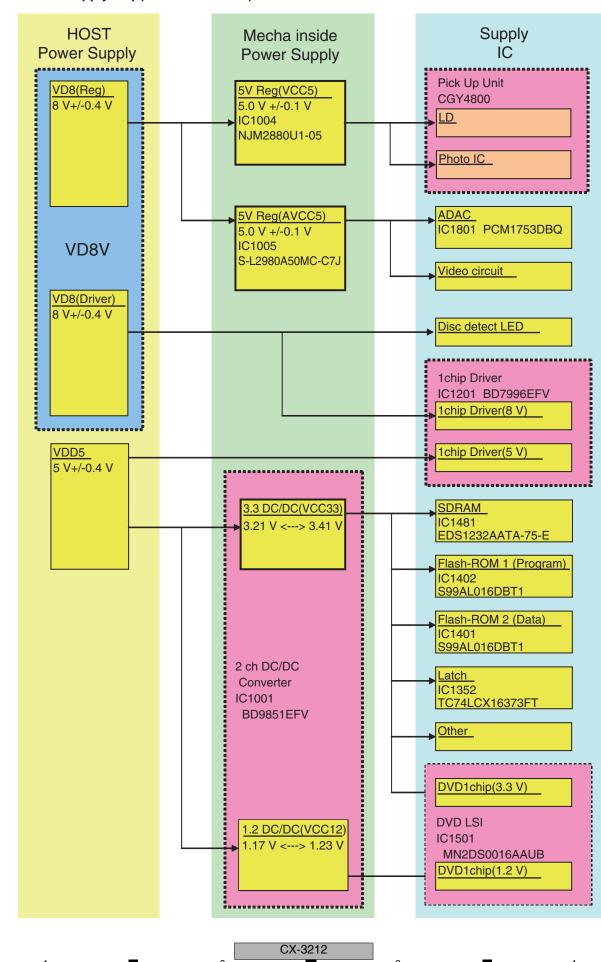
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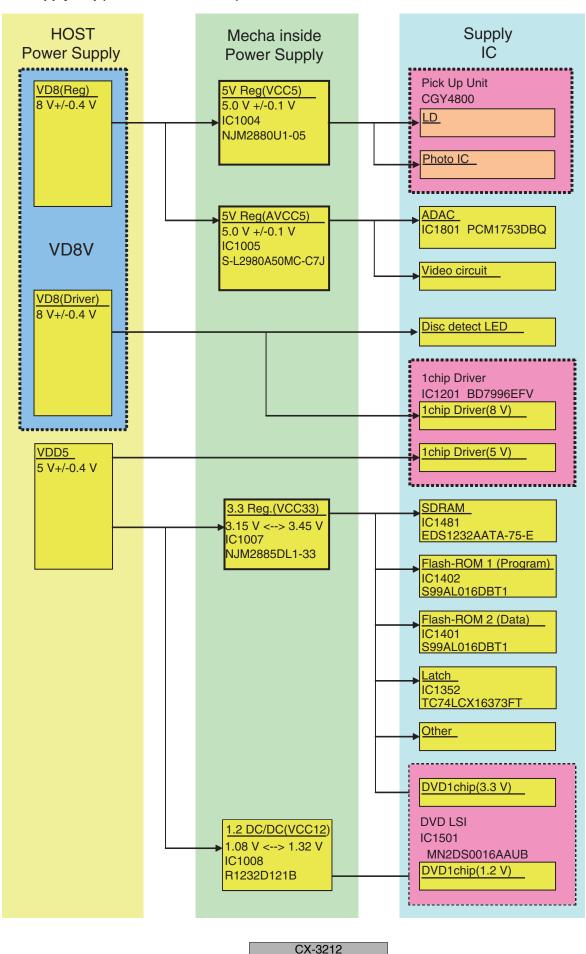
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#### 1.7 Power Supply Map(MS5 base model)



#### Power Supply Map(MS5AV code2 model)

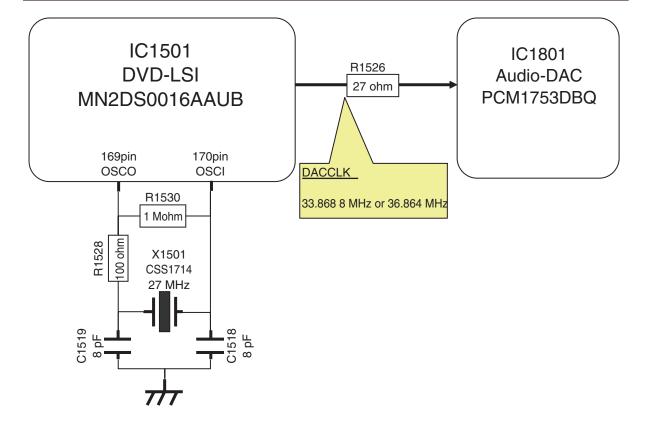


#### 1.8 Clock circuit

#### [Outline

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By connecting a 27 MHz crystal oscillator to DVD-LSI (IC1501), DACCLK for externally connected Audio-DAC is formed and supplied by the clock generator inside the DVD-LSI in addition to the clock used inside the LSI.



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#### 1.9 Audio circuit

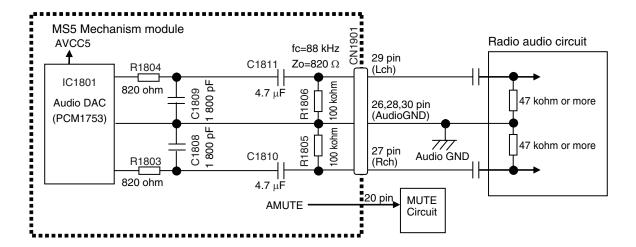
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#### [Outline]

- 1 Analog audio signal
  - Serial 3 line digital output + DACCLK (audio clock) output from DVD-LSI (IC1501) are converted to analog audio signal by Audio-DAC (IC1801), and are output from HOST IF connector (CN1901). Furthermore, analog MUTE signal is also output from DVD-LSI (IC1501) via HOST IF connector (CN1901) simultaneously.
- ② Digital audio signal (IEC60958/IEC61937)
  Digital audio signal (IEC60958/IEC61937), output from DVD-LSI (IC1501), is output via Multi-ch/Ripping
  IF connector (CN1851).
- ③ Digital multi-channel audio serial signal Serial 6 line output from DVD-LSI (IC1501) is output via Multi-ch/Ripping IF connector (CN1851).
- 4 CD-DA ripping signal
  Serial 3 line signal output + SUB-CODE signal, output from DVD-LSI (IC1501), are output in 4 times speed via Multi-ch/Ripping IF connector (CN1851).

#### [Analog audio signal]

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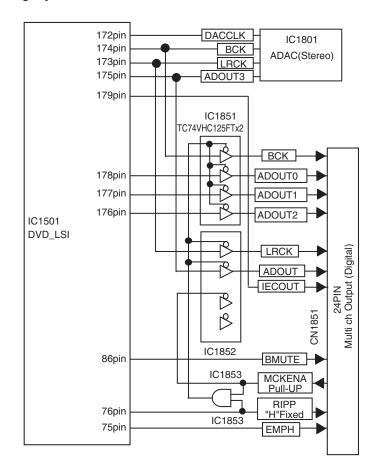
[Digital audio signal]

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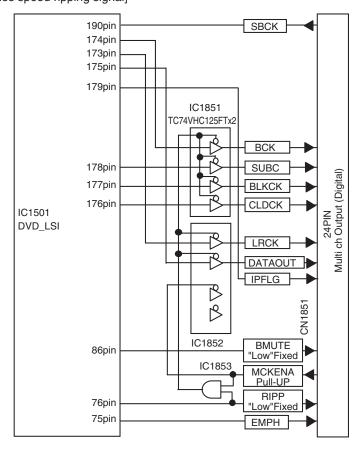
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#### [CD-DA 4 times speed ripping signal]



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#### 1.10 Video circuit

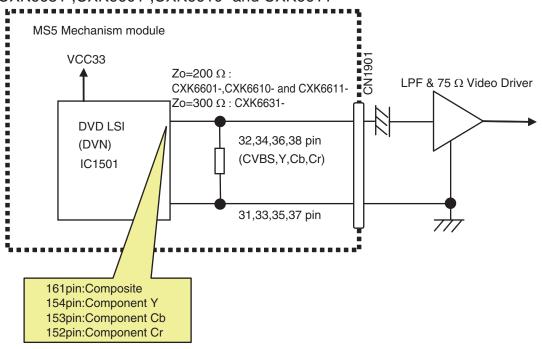
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#### [Outline]

Composite signal and component signal are output from DVD-LSI (IC1501), and output from HOST IF (CN1901). Incidentally, the buffer circuit of MS5AVcode2 model ->

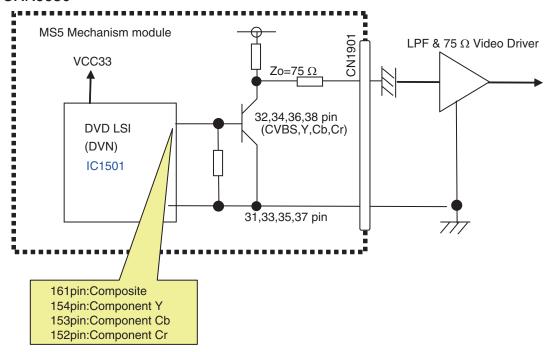
CXK6631-,CXK6601-,CXK6610- and CXK6611-: No Mount, and the output signal from DVD-LSI is output as is. CXK6630-: The buffer circuit is installed.

#### CXK6631-, CXK6601-, CXK6610- and CXK6611-



#### CXK6630-

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#### 1.11 SDRAM I/F

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#### [Outline]

It is a memory for realizing the AV decoding function of DVD-LSI (IC1501). It is used for various purposes such as buffering of stream data before decoding, working area for decoding, and storing of AV data or output data after decoding.

#### SDRAM interface

#### \* When viewed from | DVD-LSI

Signal Name	Bits	I/O	Description
MDQ[31:0]	32	I/O	Data bus of external SDRAM
MA[11:0]	12	0	SDRAM address
BA[1:0]	2	0	SDRAM bank address
NRAS	1	0	RAS signal of SDRAM
NCAS	1	0	CAS signal of SDRAM
NEW	1	0	Write enable signal of SDRAM
NCS	1	0	Chip select signal of SDRAM
DQM[0]	1	0	Mask signal for writing lower level byte of the lower 2 bytes in SDRAM
DQM[1]	1	0	Mask signal for writing higher level byte of the lower 2 bytes in SDRAM
DQM[2]	1	0	Mask signal for writing lower level byte of the higher level 2 bytes in SDRAM
DQM[3]	1	0	Mask signal for writing higher level byte of the higher 2 bytes in SDRAM
MCK	1	0	Clock input to SDRAM
MCKI	1	I	Clock input for data input from SDRAM

#### SDRAM specifications

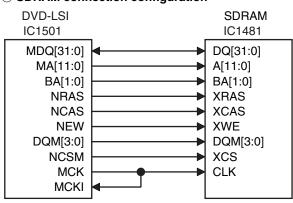
• Data bus width: 32 bit

• Operating frequency: 121.5 MHz

• CAS latency=3

- 8 word burst transfer
- Manual precharge
- CAS before RAS refresh (Auto refresh)

#### SDRAM connection configuration

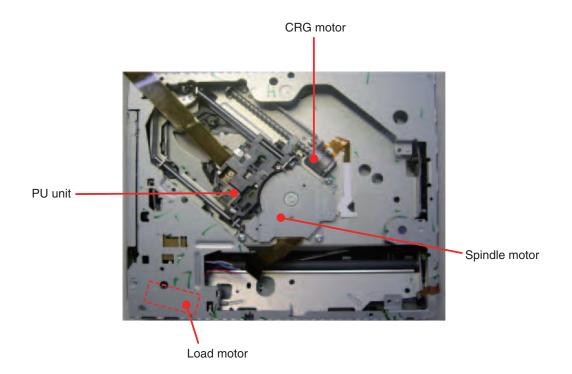


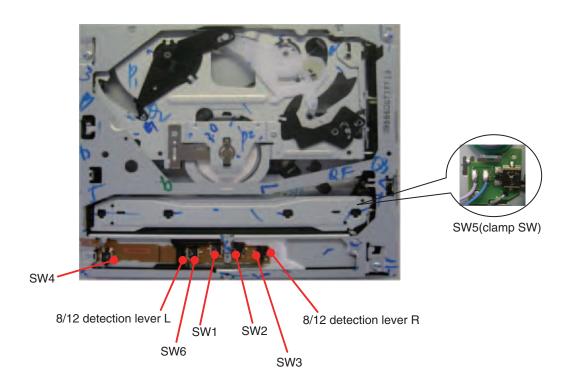
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# 2. MECHANISM DESCRIPTIONS

#### Construction





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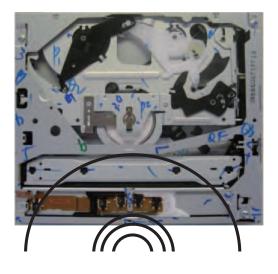
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# 2.1 Disc loading operation

- 1. When the disc is loaded, 8/12 detection lever R · L will slide, either SW1 or SW2 will be ON→OFF, and the loading motor will start.
- 2. In the case of a 12 cm disc, the disc is transported and SW3 becomes OFF and SW4 becomes ON, and the microcomputer judges as a 12 cm disc.



3. In the case of an 8 cm disc, even if the disc is transported, the SW3 OFF and SW4 ON state will not be realized, and the clamping motion will be taken. The microcomputer will judge as an 8 cm disc.





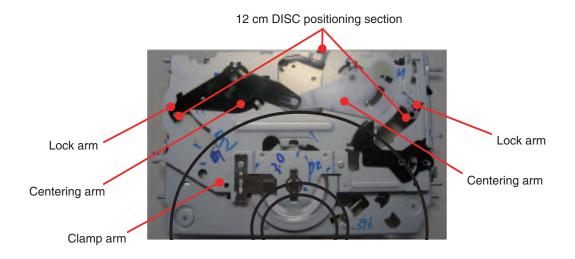
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## 2.2 Disc centering mechanism

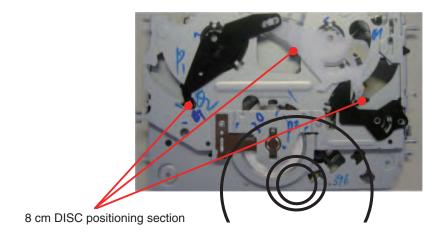
1. In the case of a 12 cm disc, the centering arm R · L will open by the disc being transported and both the lock arm R · L being pushed. Furthermore, the disc will be centered by the stopper of either the clamp arm or the centering arm R and stopped, and the clamping motion will be taken.



2. In the case of an 8 cm disc, if a disc is inserted being shifted to the left or the right, the disc will first hit the lock arm R or L.

As the lock arm R and L are coupled via the centering arm R and L and the lock will not be released unless both are pushed, the disc will be restricted by the fixed lock arm and centered.

The disc pushes out the detection arm while being centered, the disc stops at a position where the motion of the detection arm is completed, and the clamping motion will be taken.



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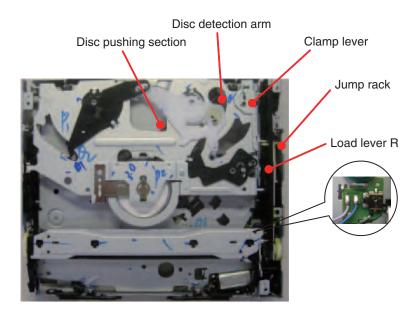
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# 2.3 Clamping operation

1. When a disc is loaded, the clamp lever will be driven by the disc detection arm being pushed by an 8 cm or a 12 cm disc. By engagement of the jump rack and the lever driving gear, the disc clamping motion will start.

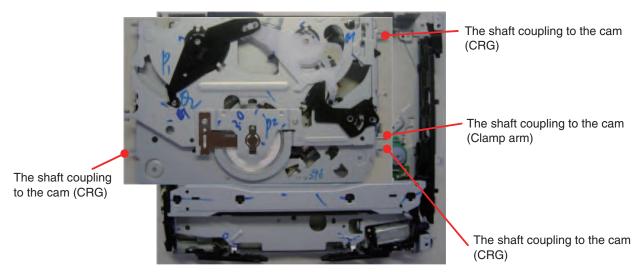


2. When the load lever R pushed by the jump rack moves to the front side of the mechanism, the roller shaft restricted by the cam of the load lever R will move downward.

And the roller shaft is also restricted by the cam of the cam ring.

The power of the roller shaft is transferred to the load lever L via the cam ring, and the load lever L will move to the front side of the mechanism.

The coupling of the load cam attached to each load lever, three shafts of the CRG chassis unit and the shaft of the clamp arm will be released, and the clamping motion will be completed at a position where the switch pushing section of the load lever R turns the clamp SW to ON.



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# 2.4 Ejection operation

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- 1. The loading motor reverse rotates, and the ejection motion will start.
- 2. In the case of a 12 cm disc, the ejection will be completed by OFF→ON→OFF of SW4.
- 3. In the case of an 8 cm disc, the ejection will be completed when both SW3 and SW6 become ON after either SW3 or SW6 is ON→OFF.

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# 3. DISASSEMBLY

#### How to hold the mechanism section (Fig 1)

- 1. Hold the main frame and the top frame.
- 2. As the mechanical strength of the front part of the top frame is not strong, do not hold this part.
- 3. Do not touch the switches provided on the top face of the mechanism section.
- 4. Be careful not to pull the flexible PCB on the side face.

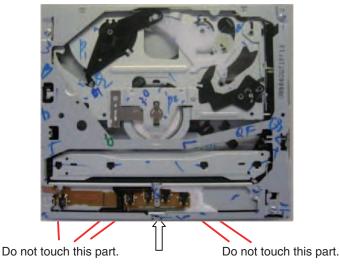


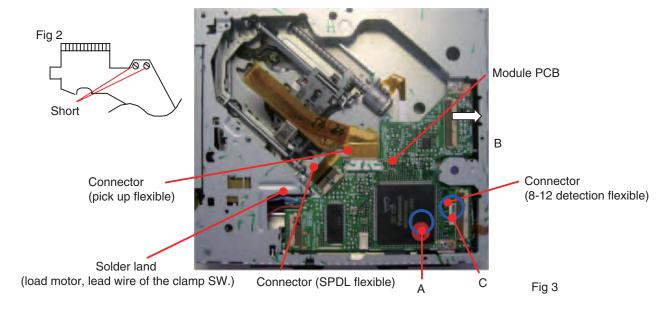
Fig 1

Do not touch this part.

#### How to remove the module PCB (Fig 2, Fig 3)

- 1. Put the mechanism section in locked state (disc load standby position).
- 2. Hold the mechanism module with its top face down.
- 3. Make the lands at 2 locations on the pick up flexible PCB short.
- 4. Disconnect the connectors of the pick up flexible PCB and the SPDL flexible PCB. (Be sure to disconnect the connectors as the flexible PCB will be damaged if the PCB is removed without removing the flexible PCB.)
- 5. Remove the solder joint of the lead wire of the load motor and the clamp SW.
- 6. Remove the two screws, and then remove the module PCB.

  (Lift up point A slightly and remove it toward B direction. Be careful as the point C is connected with a flexible PCB.)
- 7. Disconnect the connector of the 8-12 detection flexible PCB from the PCB.



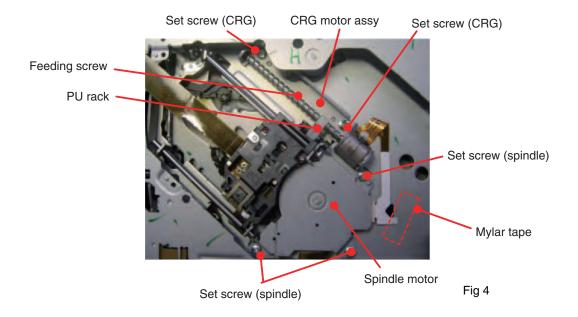
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#### How to remove the spindle motor (Fig 4)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the flexible PCB of the CRG motor from the connector of the spindle motor.
- 3. Remove the three motor mounting screws. When mounting or removing the motor, be careful not to deform the CRG chassis.

#### How to remove the CRG motor assy (Fig 4)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the Mylar tape.
- 3. Remove the flexible PCB of the CRG motor from the connector of the spindle motor.
- 4. Remove the two screws, and then remove the CRG motor assy.



#### How to remove the upper frame assy (Fig 5)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the vibration-proof spring (right front).
- 3. Remove the four screws, and then remove the upper frame assy.

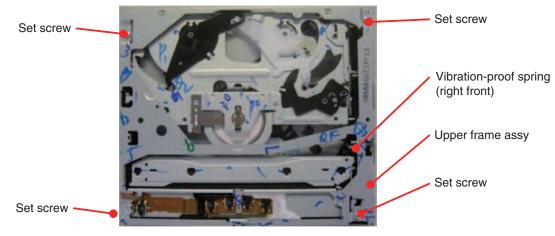


Fig 5

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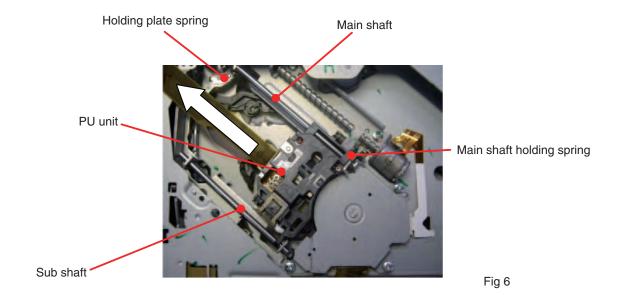
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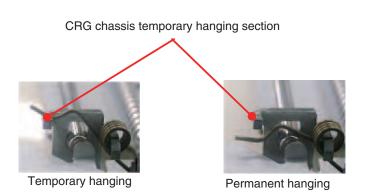
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#### ● How to remove the PU unit (Fig 6)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Hang the main shaft holding spring to the CRG chassis temporary hanger.
- 3. Remove the CRG motor assy according to the instructions in "How to remove the CRG motor assy".
- 4. Remove the holding plate spring of the main shaft.
- 5. While lifting up the tip of the pick up rack, slide the main shaft, and remove the PU unit.

(Note) When mounting the PU unit again, make sure to do the adjustments of the devices mounted thereon according to the descriptions of the service manual. Furthermore, make sure to hang the main shaft holding spring permanently.

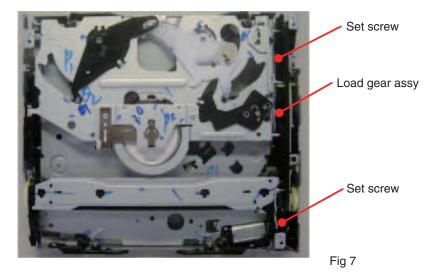




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#### How to remove the load gear assy (Fig 7)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 3. Remove the two screws, and then remove the load gear assy.
- 4. Remove the jump rack and the rack attached spring.



#### How to make the empty clamp state (motor driven empty clamp) (Fig 8)

- 1. While driving the motor in the clamping direction, pull the clamp lever toward you.
- 2. Even if the clamp lever has pushed the jump rack putting it in the clamped state, continue pulling the clamp lever toward you lightly until it is stopped. It should be noted that the ejection will not work if the bar ring of the clamp lever is positioned at the center of the hook shape. (Fig 9)
- 3. When the clamping motion is finished, stop the motion before the convex shape of the jump rack touches the load lever R. (Fig 10)

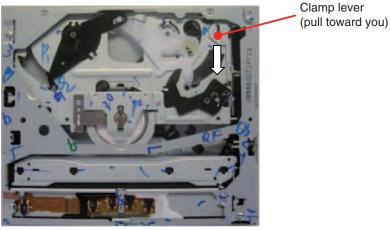


Fig 8

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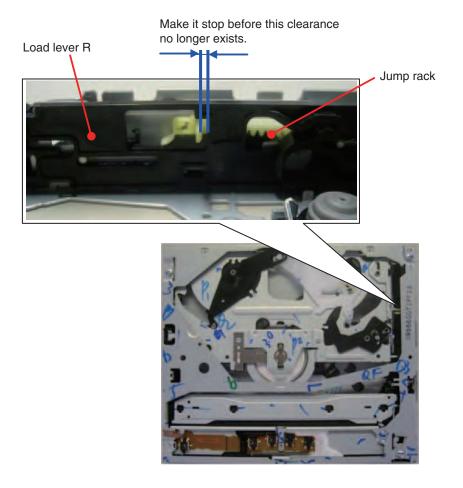
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Bar ring of the clamp lever

Clamp spring

Fig 9

Make sure that the bar ring of the clamp lever does not get inside the clamp spring.



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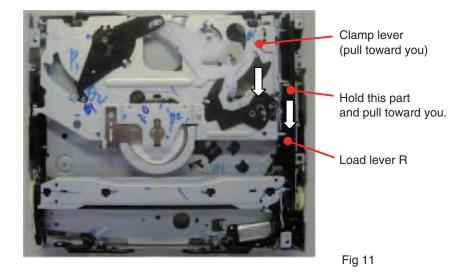
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Fig 10

28 CX-3212 3 = 4

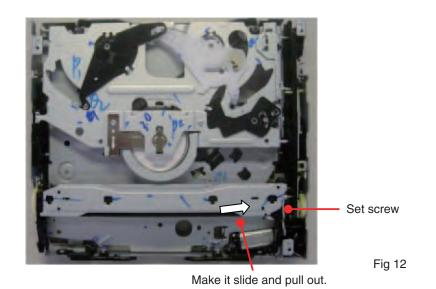
#### ■ How to make the empty clamp state (manual empty clamp) (Fig 11)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 3. Remove the load gear assy according to the description in "How to remove the load gear assy".
- 4. While pulling the clamp lever toward you, pull the slip stopper of the load lever R, and make it clamp.



#### How to remove the load motor assy (Fig 12)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 3. Remove the load gear assy according to the description in "How to remove the load gear assy".
- 4. Make the empty clamp state according to the description in "How to make the empty clamp state (manual empty clamp)".
- 5. Remove the screw and then pull out the load motor assy from the side.



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#### ● How to remove the CRG assy (Fig 13)

- 1. Make the empty clamp state according to the description in "How to make the empty clamp state (motor driven empty clamp)".
- 2. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 3. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 4. Remove the three vibration-proof springs.
- 5. Remove the CRG assy by lifting it up until the shaft slips out of the damper.

#### How to remove the disc guide assy (Fig 13)

- 1. Make the empty clamp state according to the description in "How to make the empty clamp state (motor driven empty clamp)".
- 2. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 3. Remove the upper frame ASSY according to the instructions in "How to remove the upper frame assy".
- 4. Remove the two screws, and then remove the disc guide by lifting it up and placing it at 45° position and further sliding it to the left.

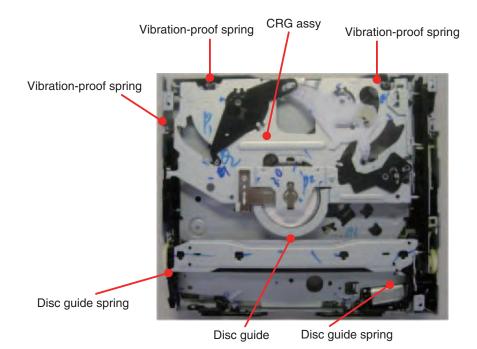
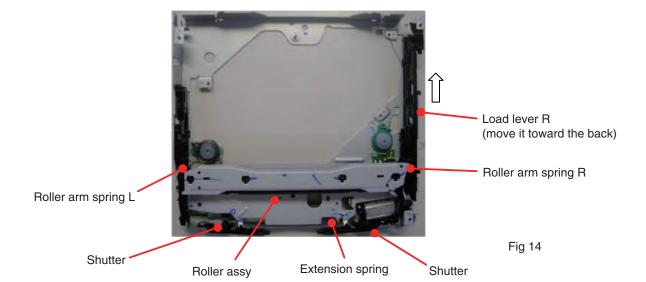


Fig 13

#### ■ How to remove the roller assy (Fig 14)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 3. Remove the extension spring.
- 4. Remove the load gear assy according to the description in "How to remove the load gear assy".
- 5. Make the empty clamp state according to the description in "How to make the empty clamp state (manual empty clamp)".
- 6. Remove the disc guide assy according to the description in "How to remove the disc guide assy".
- 7. Remove the CRG assy according to the description 4 and 5 in "How to remove the CRG assy".
- 8. Push the slip stopper of load lever R toward the back, and move it until the end.
- 9. Remove the load motor assy according to the description in "How to remove the load motor assy".
- 10. Remove the roller arm spring R L.
  - As for the roller arm spring R, remove only the tip hanging on the load lever R.
- 11. Remove the extension spring, and then remove the roller assy by lifting it up to the highest position and sliding it toward the right.

(Note) Be careful not to deform the shutter when removing the roller assy.



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#### How to remove the damper (Fig 15)

- 1. Make the empty clamp state according to the description in "How to make the empty clamp state (manual empty clamp)".
- 2. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 3. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 4. Remove the three vibration-proof springs.
- 5. Remove the CRG assy according to the description 4 and 5 in "How to remove the CRG assy".
- 6.1 Release the clinch by holding the A section of the damper attached to the main frame using a pair of pliers and lifting it up toward B direction.
  - (As there will be a gap made at section C, remove the damper.)
- 6.2 Insert a screwdriver into section D, release the clinch by lifting up a metal plate on the other side, and remove the damper.
- 7.1 Remove the CRG motor assy according to the description 3 and 4 in "How to remove the CRG motor assy".
- 7.2 Remove the damper.

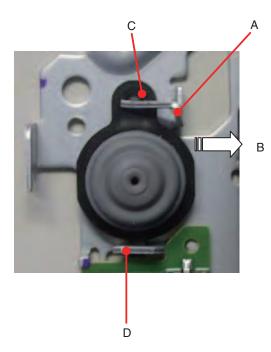


Fig 15

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